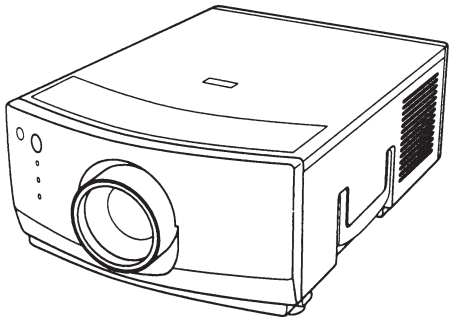
SHARP

SERVICE MANUAL

SY8A9XV-ZW99U



LCD PROJECTOR

IQ IMAGE QUALITY

MODEL **XV-ZW99U**

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

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SHARP CORPORATION

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

Specifications

Product type	LCD Projector
Model	XV-ZW99U
Video system	NTSC 3.58
Display method	LCD panel × 3, RGB optical shutter method
LCD panel	Panel size: 1.3″ (19.8 [H] × 26.4 [W] mm) Display method: Translucent TN liquid crystal panel Drive method: TFT (Thin Film Transistor) Active Matrix panel No. of dots: 519,168 dots (832 [H] × 624 [V])
Lens	1–1.6× zoom lens, F2.5–3.2, f = 48–76 mm
Projection lamp	370 W Metal halide lamp
Brightness (ANSI lumen)	400 ANSI lumens (during RGB input and SVGA display)
Contrast ratio	100:1
Video input signal	RCA Connector: VIDEO, composite video, 1.0 Vp-p, sync negative, 75 Ω terminated RCA Connector: AUDIO, 0.5 Vrms more than 22 kΩ (stereo)
S-video input signal	4-pin mini DIN connector Y (luminance signal): 1.0 Vp-p, sync negative, 75 Ω terminated C (chrominance signal): Burst 0.286 Vp-p, 75 Ω terminated
Video (monitor) output signal	RCA Connector: VIDEO, composite video, 1.0 Vp-p sync negative, 75 Ω terminated RCA Connector: AUDIO, 0.5 Vrms more than 2.2 kΩ (stereo)
Component video input signal	RCA Connector: Y (luminance signal): 1,0 Vp-p, sync negative, 75 Ω terminated P_B (C_B) (chrominance signal): 0.7 Vp-p, 75 Ω terminated P_R (C_R) (chrominance signal): 0.7 Vp-p, 75 Ω terminated RCA Connector: AUDIO, 470 mVrms, more than 22 kΩ (stereo)
Horizontal resolution	580 TV lines (video input)
Audio output	3 W + 3 W (stereo)
Computer RGB input signal	*Video signal* 15-PIN MINI D-SUB CONNECTOR (RGB Input Port): RGB separate type analog input: 0–0.7 Vp-p, positive, 75 Ω terminated STEREO MINIJACK: AUDIO, 0.5 Vrms, more than 22 kΩ (stereo) HORIZONTAL SYNC. SIGNAL: TTL level (positive/negative) or composite sync (Apple only) VERTICAL SYNC. SIGNAL: Same as above
RGB input signal	9-pin D-sub male connector (RS-232C Input Port)
Speaker system	3 3/32″ (8 cm) round × 2
Rated voltage	AC 110–120 V
Input current	1.8 A/1.0 A
Rated frequency	50/60 Hz
Power consumption	500 W
Operating temperature	41°F to 104°F (+5°C to +40°C)
Storage temperature	−4°F to 140°F (−20°C to +60°C)
Cabinet	Plastic
I/R Carrier frequency	40 kHz
Dimensions (approx.)	14 9/64″ (W) × 7 43/64″ (H) × 20 25/32″ (D) (359 × 195 × 528 mm) (projector only) 17 31/64″ (W) × 7 43/64″ (H) × 20 25/32″ (D) (444 × 195 × 528 mm) (including terminal cover)
Weight (approx.)	30.8 lbs. (14.0 kg)
Supplied accessories	Remote control, Four AA batteries, Computer (VGA) cable (9′ 10″, 3 m), Macintosh adaptor, A/V cable, Extra air filter, Lens cap (attached), Power cord (9′ 10″, 3 m), Terminal cover, Inverted labels, Lens shipping block
Replacement parts	Remote control (RRMCG1461CESA), Computer (VGA) cable (QCNW-5050CEZZ), Macintosh adaptor (QPLGJ1512CEZZ), A/V cable (QCNW-3740CEZZ), Air filter (PFILD0082CEZZ), Lens cap (PCAPH1049CESB), Power cord (QACCU5013CEZZ), Terminal cover (GCOVA1690CEK/), Inverted labels (HINDP4946CESC), Lens shipping block (SPAKX2842CEZZ)

This SHARP projector uses LCD (Liquid Crystal Display) panels. These very sophisticated panels contain 519,168 pixels (× RGB) TFTs (Thin Film Transistors).
As with any high technology electronic equipment such as large screen TVs, video systems and video cameras, there are certain acceptable tolerances that the equipment must conform to. This unit has some inactive TFTs within acceptable tolerances which may result in illuminated or inactive dots on the picture screen.

This will not affect the picture quality or the life expectancy of the unit.

If you have any questions about this matter, please call toll free 1-800-BE-SHARP (1-800-237-4277). U.S.A. ONLY

Specifications are subject to change without notice.

IMPORTANT SERVICE SAFETY NOTES

■ **Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and servicing guidelines as follows:**

WARNING

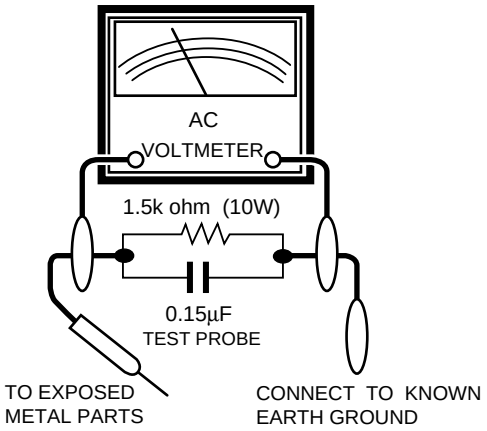
1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.

BEFORE RETURNING THE PROJECTOR: (Fire & Shock Hazard)

Before returning the projector to the user, perform the following safety checks:

1. Inspect lead wires are not pinched between the chassis and other metal parts of the projector.
2. Inspect all protective devices such as non-metallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacity networks, mechanical insulators, etc.
3. To be sure that no shock hazard exists, check for current leakage in the following manner:

- Plug the AC cord directly into a 120-volt AC outlet, (Do not use an isolation transformer for this test).
- Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15µF capacitor in parallel between all exposed metal cabinet parts and earth ground.
- Use an AC voltmeter with sensitivity of 5000 ohm per volt., or higher, sensitivity to measure the AC voltage drop across the resistor (See Diagram).
- All checks must be repeated with the AC plug connection reversed. (If necessary, a non-polarized adapter plug must be used only for the purpose of completing these checks.)
  Any reading of 0.3 volts RMS (this corresponds to 0.2 milliamp. AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the unit to the owner.



SAFETY NOTICE

Many electrical and mechanical parts in LCD Projector have special safety-related characteristics.
These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage, etc.
Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by "⚠" and shaded areas in the Replacement Parts Lists and Schematic Diagrams. For continued protection, replacement parts must be identical to those used in the original circuit. The use of a substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire or other hazards.

AVIS POUR LA SECURITE

De nombreuses pièces, électriques et mécaniques, dans les projecteur à LCD présentent des caractéristiques spéciales relatives à la sécurité, qui ne sont souvent pas évidentes à vue.
Le degré de protection ne peut pas être nécessairement augmentée en utilisant des pièces de remplacement étalonnées pour haute tension, puissance, etc.
Les pièces de remplacement qui présentent ces caractéristiques sont identifiées dans ce manuel; les pièces électriques qui présentent ces particularités sont identifiées par la marque "⚠" et hachurées dans la liste des pièces de remplacement et les diagrammes schématiques. Pour assurer la protection, ces pièces doivent être identiques à celles utilisées dans le circuit d'origine. L'utilisation de pièces qui n'ont pas les mêmes caractéristiques que les pièces recommandées par l'usine, indiquées dans ce manuel, peut provoquer des électrocutions, incendies ou autres accidents.

NOTE TO SERVICE PERSONNEL

UV-RADIATION PRECAUTION

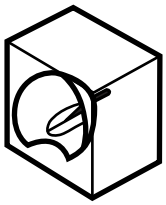
The light source, metal halide lamp, in the LCD projector emits small amounts of UV-Radiation.

AVOID DIRECT EYE AND SKIN EXPOSURE.

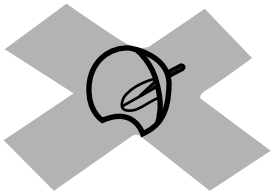
To ensure safety please adhere to the following:

1. Be sure to wear sun-glasses when servicing the projector with the lamp turned “on” and the top enclosure removed.

2. Do not operate the lamp outside of the lamp housing.



3. Do not operate for more than 2 hours with the enclosure removed.



UV-Radiation and Medium Pressure Lamp Precautions

1. Be sure to disconnect the AC plug when replacing the lamp.
2. Allow one hour for the unit to cool down before servicing.
3. Replace only with same type lamp. Type CLMPF0046DE01 rated 63V/370W.
4. The lamp emits small amounts of UV-Radiation, avoid direct-eye contact.
5. The medium pressure lamp involves a risk of explosion. Be sure to follow installation instructions described below and handle the lamp with care.

NOTE POUR LE PERSONNEL D’ENTRETIEN

PRECAUTION POUR LES RADIATIONS UV

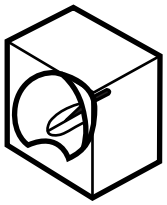
La source de lumière, la lampe métal halide, dans le projecteur LCD émet de petites quantités de radiation UV.

EVITEZ TOUTE EXPOSITION DIRECTE DES YEUX ET DE LA PEAU.

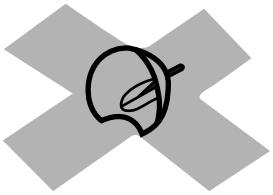
Pour votre sécurité, nous vous prions de respecter les points suivants:

1. Toujours porter des lunettes de soleil lors d’un entretien du projecteur avec la lampe allumée et le haut du coffret retiré.

2. Ne pas faire fonctionner la lampe à l’extérieur du boîtier de lampe.



3. Ne pas faire fonctionner plus de 2 heures avec le coffret retiré.



Précautions pour les radiations UV et la lampe moyenne pression

1. Toujours débrancher la fiche AC lors du remplacement de la lampe.
2. Laisser l’unité refroidir pendant une heure avant de procéder à l’entretien.
3. Ne remplacer qu’avec une lampe du même type. Type CLMPF0046DE01, caractéristique 63V/370W.
4. La lampe émet de petites quantités de radiation UV- éviter tout contact direct avec les yeux.
5. La lampe moyenne pression implique un risque d’explosion. Toujours suivre les instructions d’installation décrites ci-dessous et manipuler la lampe avec soin.

UV-RADIATION PRECAUTION (Continued)

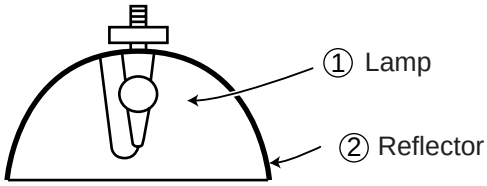
■ Lamp Replacement

Note:

Since the lamp reaches a very high temperature during units operation replacement of the lamp should be done at least one hour after the power has been turned off. (to allow the lamp to cool off.)

Installing the new lamp, make sure not to touch the lamp (bulb) replace the lamp by holding its reflector ② .

[Use original replacement only.]



DANGER ! — Never turn the power on without the lamp to avoid electric-shock or damage of the devices since the stabilizer generates high voltages at its start.

Since small amounts of UV-Radiation are emitted from an opening between the duct cover and the lamp housing, it is recommended to place the LENS CAP on the opening during servicing to avoid eye and skin exposurem (Fig. 1).

Note: Please obtain a lens cap before servicing a model XV-ZW99U that is received without one.

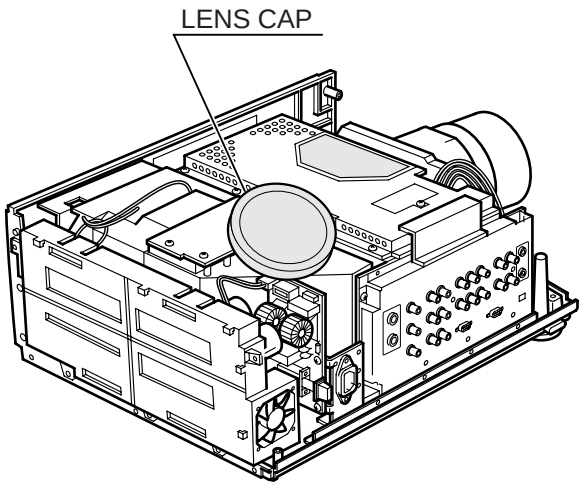


Figure 1.

PRECAUTION POUR LES RADIATIONS UV (Suite)

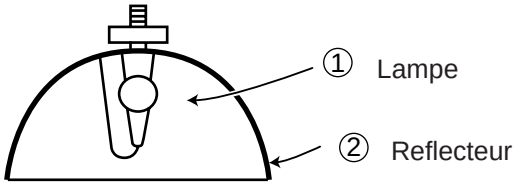
■ Remplacement de la lampe

Remarque:

Comme la lampe devient très chaude pendant le fonctionnement de l'unité, son remplacement ne doit être effectué au moins une heure après avoir coupé l'alimentation (pour permettre à la lampe de refroidir).

En installant la nouvelle lampe, s'assurer de ne pas toucher la lampe (ampoule). Remplacer la lampe en tenant son réflecteur ② .

[N'utiliser qu'un remplacement d'origine.]



DANGER ! — Ne jamais mettre sous tension sans la lampe pour éviter un choc électrique ou des dommages des appareils car le stabilisateur génère de hautes tensions à sa mise en route.

Comme de petites quantités de radiation UV sont émises par une ouverture entre le couvercle du conduit et le botier de la lampe,il est recommandé de placer le CAPUCHON D'OPTIQUE sur l'ouverture pendant l'entretien pour éviter une exposition des yeux et la peau (Fig. 1).

Remarque: Priére de se procurer un capuchon d'optique acant d'entretien un modéle XV-ZW99U qui est livré sans.

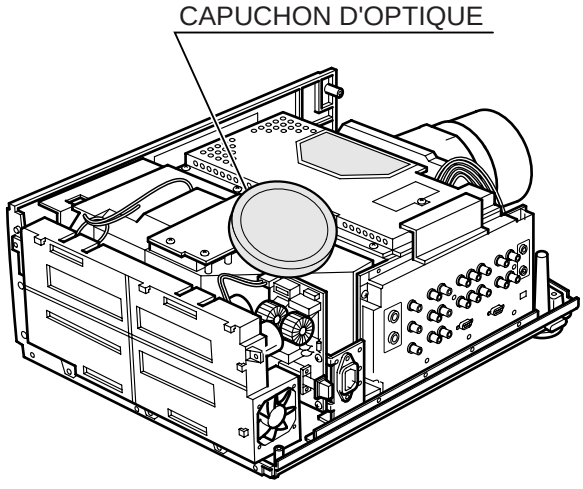


Figure 1.

WARNING: High brightness light source, do not stare into the beam of light, or view directly. Be especially careful that children do not stare directly in to the beam of light.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO MOISTURE OR WET LOCATIONS.

CAUTION

RISK OF ELECTRIC SHOCK.
DO NOT REMOVE SCREWS
EXCEPT SPECIFIED USER
SERVICE SCREW

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE CABINET.
NO USER-SERVICEABLE PARTS EXCEPT LAMP UNIT.
REFER SERVICING TO QUALIFIED SERVICE
PERSONNEL.

The lighting flash with arrowhead within a triangle is intended to tell the user that parts inside the product are risk of electric shock to persons.

The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the manual with the projector.

CAUTION
(AC-SW Unit)

12A 125V

For continued protection against a risk of fire, replace only with same type 12A 125V fuse. (F701)

CAUTION
(PowerUnit)

5A 125V

For continued protection against a risk of fire, replace only with same type 5A 125V fuse. (F702)(F703)(F704)

CAUTION
(PowerUnit)

2A 250V
P130A 136°C

For continued protection against a risk of fire, replace only with same type 2A 250V P130A fuse. (F705)(F1701)

AVERTISSEMENT: Source lumineuse de grande intensité. Ne pas fixer le faisceau lumineux ou le regarder directement. Veiller particulièrement à éviter que les enfants ne fixent directement le faisceau lumineux.

AVERTISSEMENT: AFIN D'EVITER TOUT RISQUE D'INCENDIE OU D'ELECTROCUTION, NE PAS PLACER CET APPAREIL DANS UN ENDROIT HUMIDE OU MOUILLE.

ATTENTION

RISQUE
D'ELECTROCUTION NE
PASRETIRER LES VIS, A
L'EXCEPTION DES VIS DE
REPARATION UTILISATEUR
SPECIFIEES

ATTENTION: POUR EVITER TOUT RISQUE
D'ELECTROCUTION, NE PAS RETIRER LE CAPOT.
AUCUNE DES PIECES INTERIEURES N'EST REPARABLE
PAR L'UTILISATEUR, A L'EXCEPTION DE L'UNITE DE
LAMPE. POUR TOUTE REPARATION, S'ADRESSER A UN
TECHNICIEN D'ENTRETIEN QUALIFIE.

L'éclair terminé d'une flèche à l'intérieur d'un triangle indique à l'utilisateur que les pi'eces se trouvant dans l'appareil sont susceptibles de provoquer une décharge électrique.

Le point d'exclamation à l'intérieur d'un triangle indique à l'utilisateur que les instructions de fonctionnement et d'entretien sont détaillées dans les documents fournis avec le projecteur.

PRECAUTION
(Unite D'interrupteur D'alimentation c.a.)

12A 125V

Pour une protection continue contre les risques d'incendie, ne remplacer qu'avec un fusible 12A 125V du même type. (F701)

PRECAUTION
(Unite D'alimentation)

5A 125V

Pour une protection continue contre les risques d'incendie, ne remplacer qu'avec un fusible 5A 125V du même type. (F702)(F703)(F704)

PRECAUTION
(Unite D'alimentation)

2A 250V
P130A 136°C

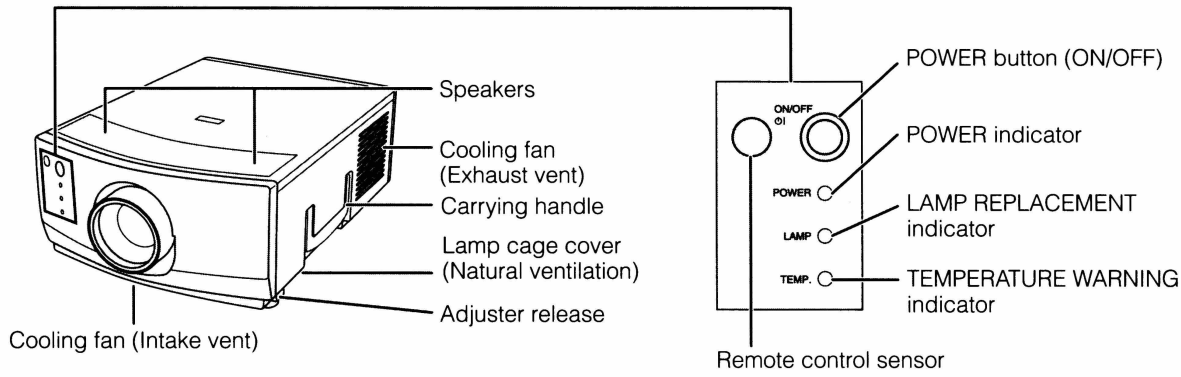
Pour une protection continue contre les risques d'incendie, ne remplacer qu'avec un fusible 2A 250V P130A du même type. (F705)(F1701)

Location of Controls

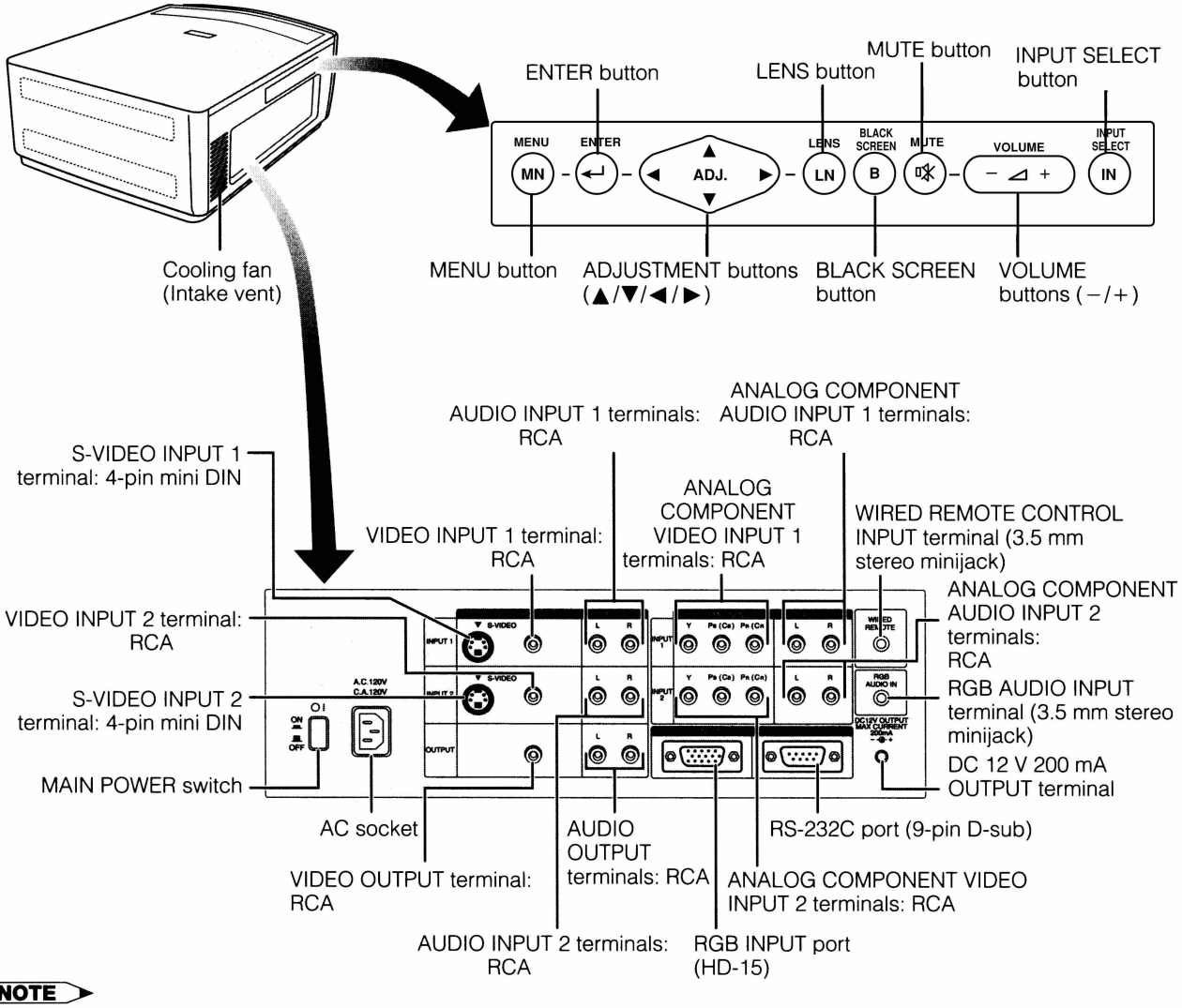
For details on the use of each control and terminal, refer to the page number indicated in the brackets.

Projector

Front View



Side and Rear View



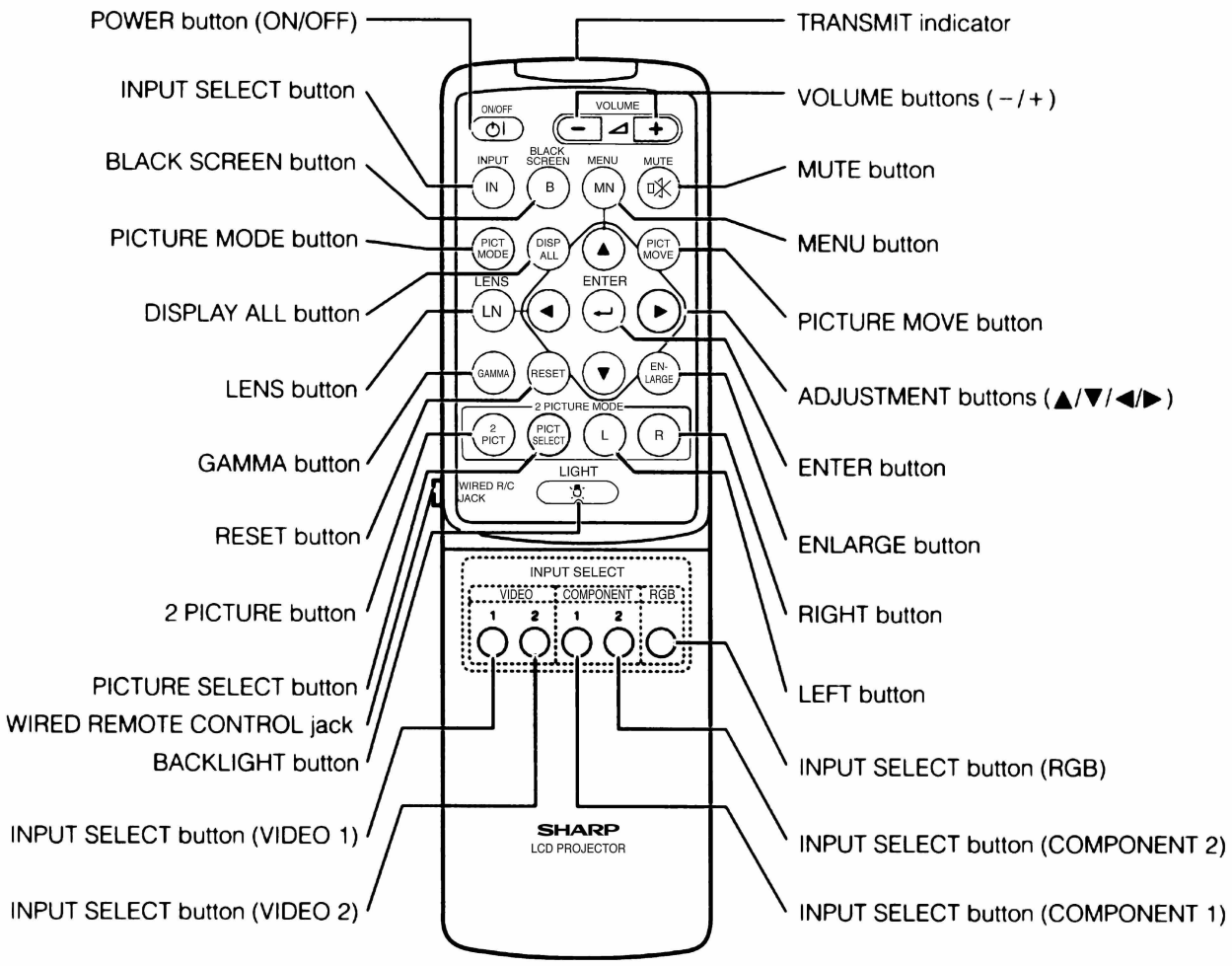
NOTE

- If a current of 200 mA or more is drawn from the DC 12 V OUTPUT terminal, a protection device will automatically stop output from the projector.

Operating the Wireless Mouse Remote Control

Remote Control

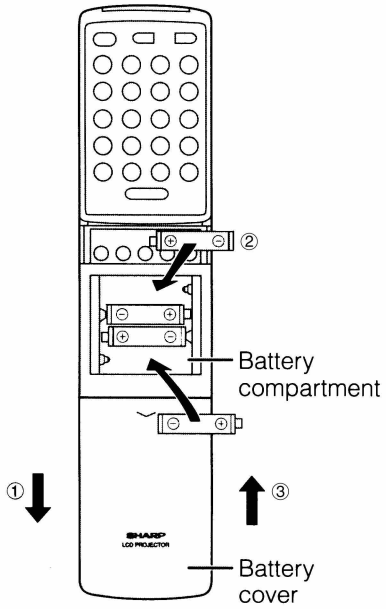
Front View



NOTE

- To use the **INPUT SELECT** buttons (**VIDEO 1**, **VIDEO 2**, **COMPONENT 1**, **COMPONENT 2**, **RGB**), slide open the battery cover. See the next page for details.

Rear View



Inserting the batteries

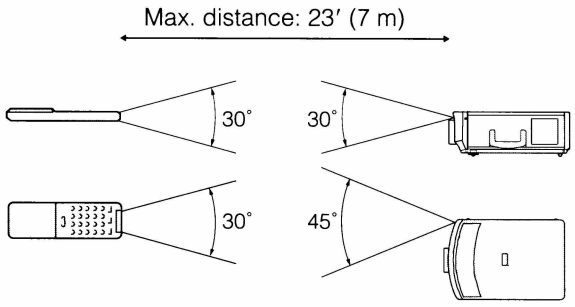
1. Press in and downward on the arrow mark (﹀) and remove the battery cover.
2. Insert four AA size batteries making sure their polarities match the + and − marks inside the battery compartment.
3. Insert the side tabs of the battery cover into their slots and press in the cover until properly seated.

NOTE

Incorrect use of batteries may cause them to leak or burst.

- Insert the batteries with the + and − polarities as indicated.
- Do not mix different brands of batteries. The life expectancy of the new batteries will be shortened and the old batteries may leak.
- Maintain the batteries in clean condition.
- Remove the batteries if the remote control will not be used for an extended period of time.
- When the batteries have been used up, remove them immediately to prevent leakage and damage. Leaked battery fluid may irritate the skin. Remove any battery fluid by wiping with a cloth.
- Due to storage conditions and the shelf life of the supplied batteries, they may run out after a short time. Should this occur, replace them with new batteries as soon as possible.

Transmission range | Reception range



Remote control positioning

The remote control can be used to control the projector in the ranges shown on the left.

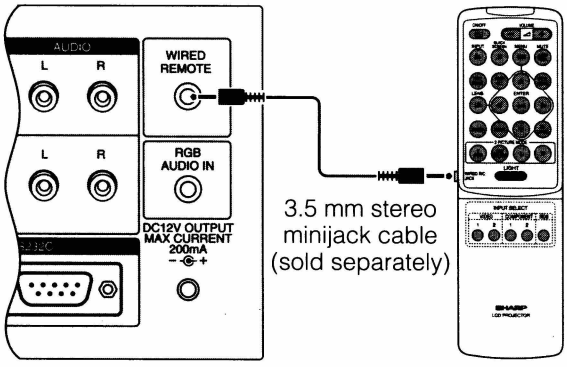
NOTE

- The signal from the remote control can be reflected off the screen for easy operation. However, the effective distance of the signal may differ due to the screen material.

Using the remote control in a dark room

Press **BACKLIGHT** to turn on the backlights of the operation buttons for about five seconds.

Side of the projector



Using a cable with the remote control

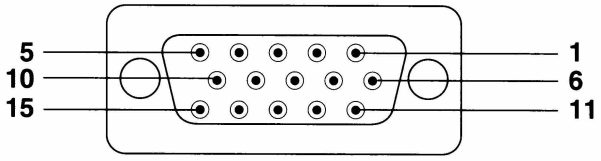
When the remote control cannot be used due to the range or positioning of the projector (rear projection, etc.), connect a 3.5 mm stereo minijack cable (sold separately) from the WIRED REMOTE CONTROL jack on the left side of the remote control to the WIRED REMOTE CONTROL INPUT terminal on the side of the projector.

NOTE

- The signal transmitter does not operate when the cable is connected to the remote control.

Connection Pin Assignments

Analog RGB Signal Input Port: 15-pin mini D-sub female connector

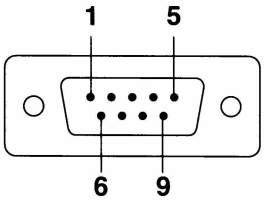


RGB Input

Analog

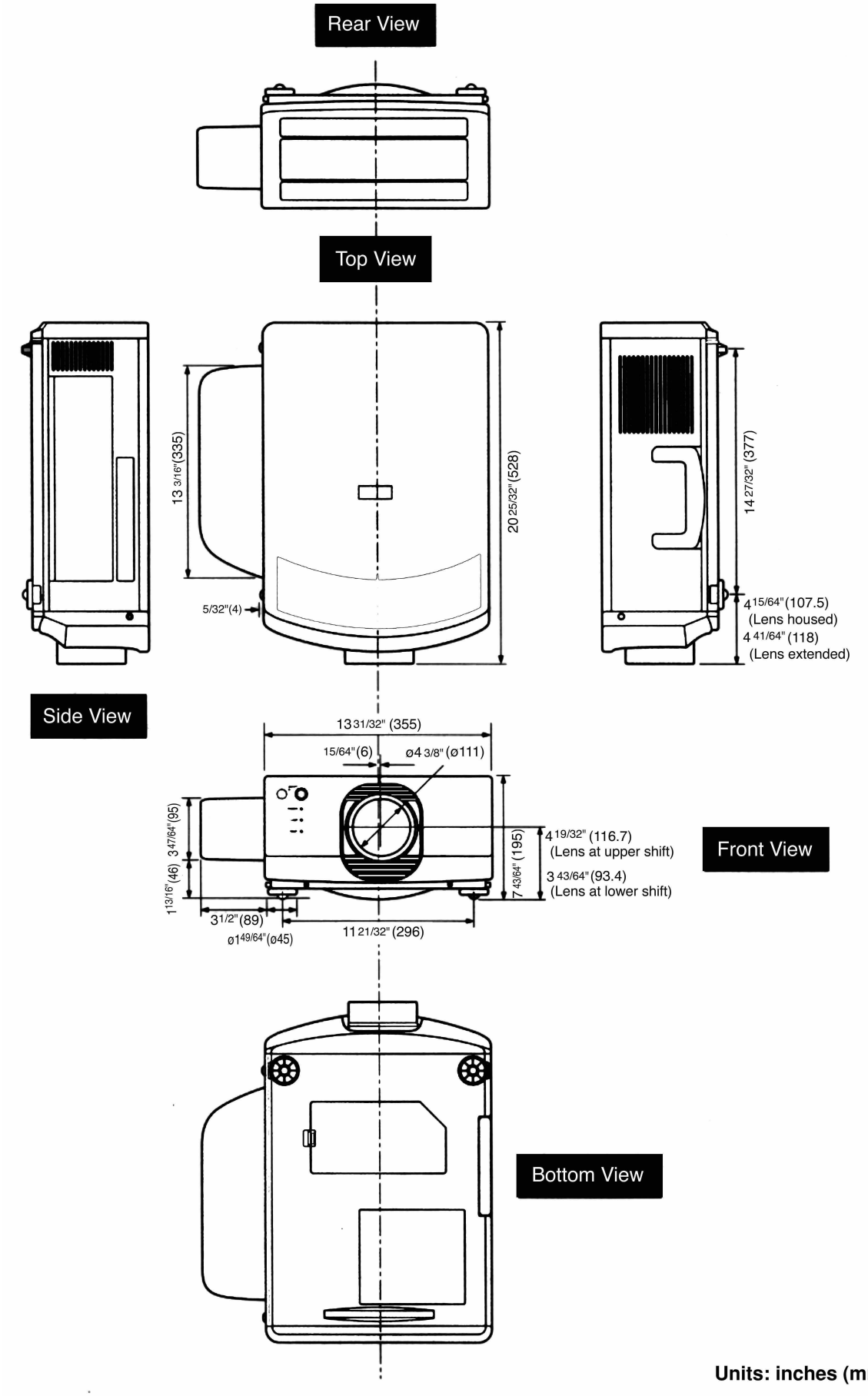
1. Video input (red)
2. Video input (green)
3. Video input (blue)
4. Reserve input 1
5. Composite sync
6. Earth (red)
7. Earth (green)
8. Earth (blue)
9. Not connected
10. GND
11. GND
12. Bi-directional data
13. Horizontal sync signal
14. Vertical sync signal
15. Data clock

RS-232C Port: 9-pin D-sub male connector



Pin No.	Signal	Name	I/O	Reference
1	CD			Not connected
2	RD	Receive Data	Input	Connected to internal circuit
3	SD	Send Data	Output	Connected to internal circuit
4	ER			Not connected
5	SG	Signal Ground		Connected to internal circuit
6	DR	Data Set Ready	Output	Not connected
7	RS	Request to Send	Output	Connected to internal circuit
8	CS			Not connected
9	CI			Not connected

Dimensions



Units: inches (mm)

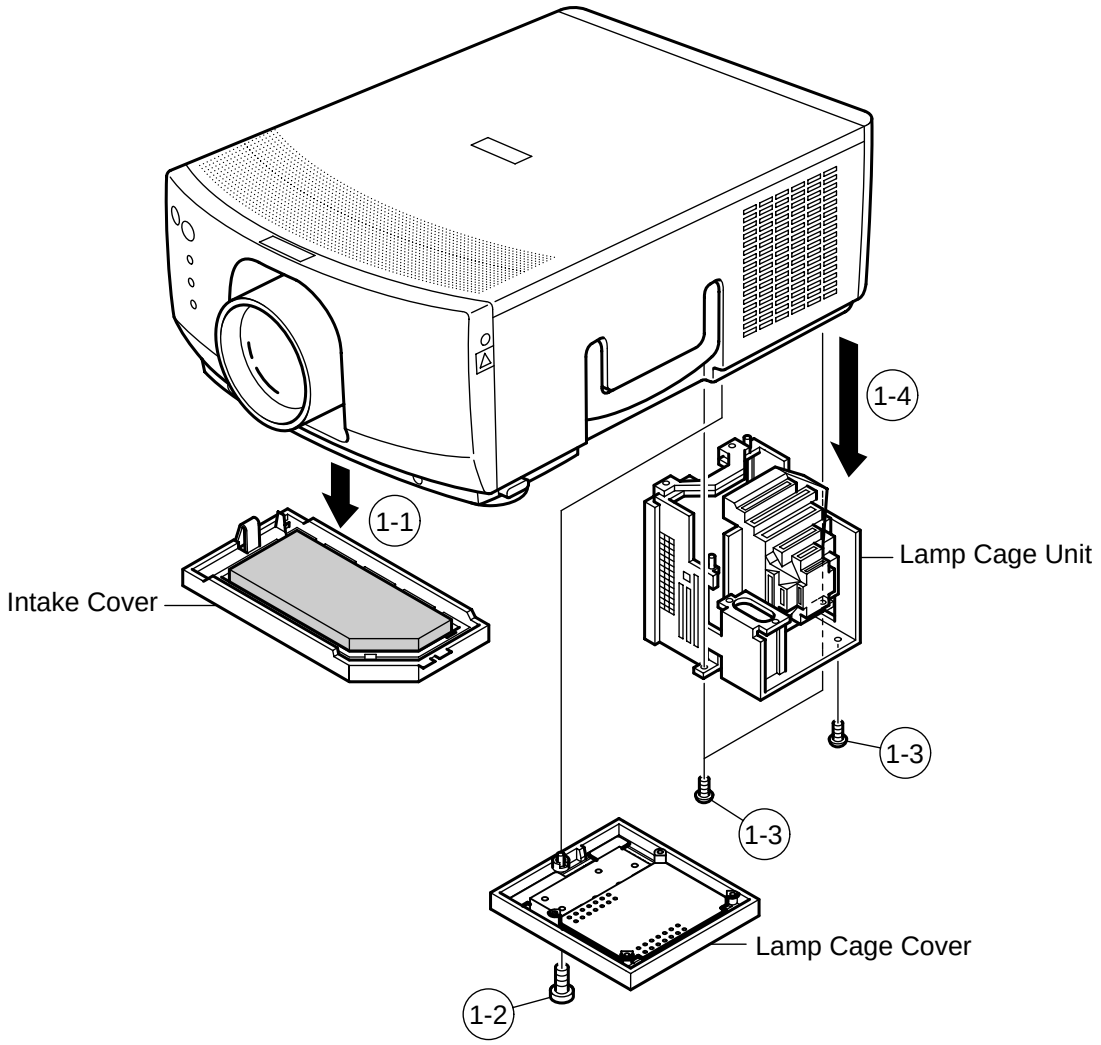
REMOVING OF MAJOR PARTS

1. Removing the Lamp cage unit and Intake cover

1-1. Remove the intake cover.
1-2. Remove the screws and detach the lamp cage cover.
1-3. Remove the three screws off the lamp cage unit.
1-4. Pull out the lamp cage unit.

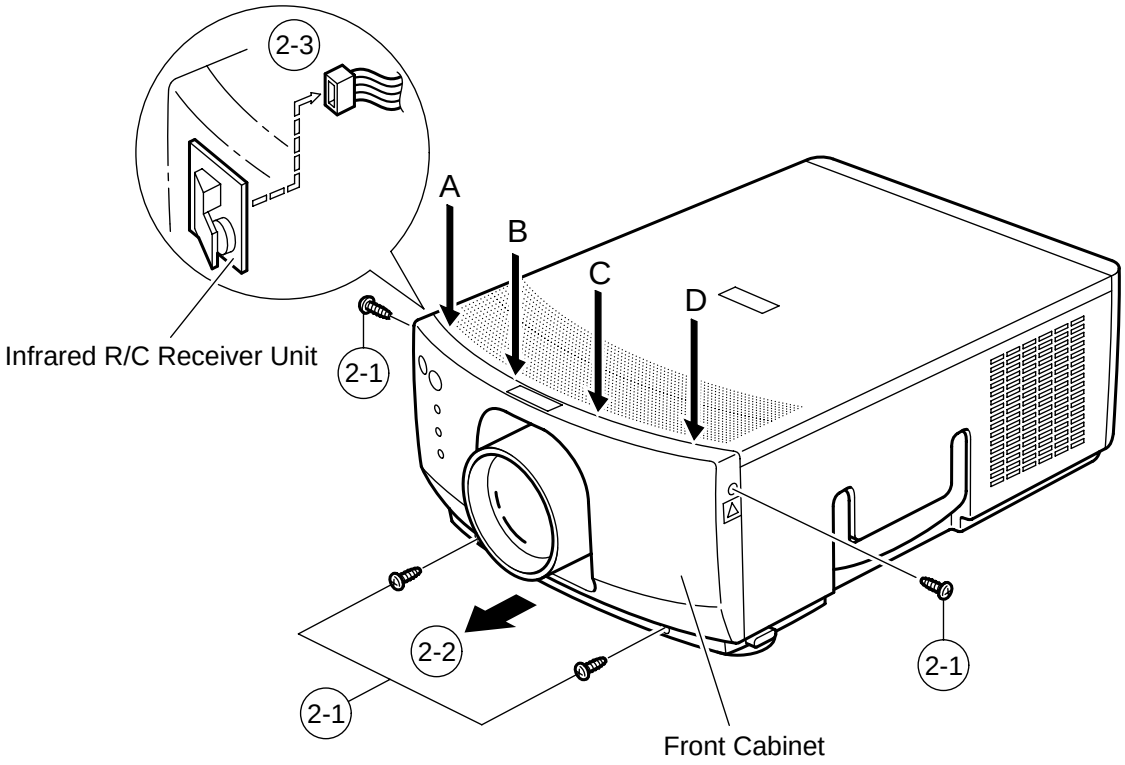
Notes:

- Before the replacement, turn off the projector's power button, make sure the cooling fan comes to a complete stop, and unplug the power cord.
- The lamp may be still very hot. Turn off the power button, unplug the power cord and wait for at least 1 hour before staring the job.
- In fitting the lamp cage unit back into position, make sure the connector is at the top position.



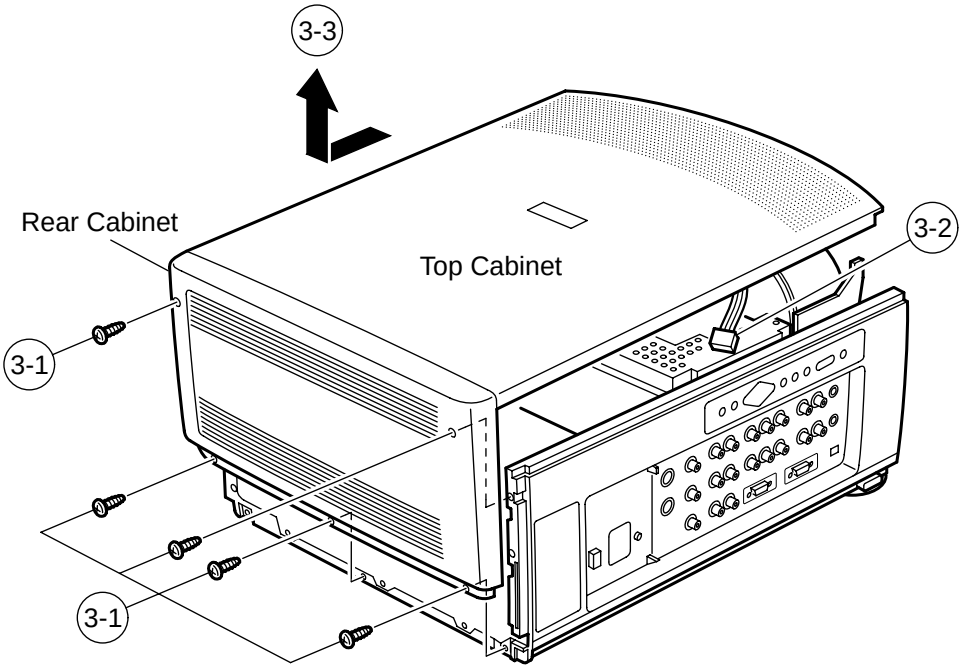
2. Removing the front cabinet

2-1. Remove the four right and left screws from the bottom of the front cabinet.
2-2. Gently press down on the hooks A, B, C and D of the top cabinet to unhook the front cabinet. Detach the front cabinet.
2-3. Disconnect the remote control connector.



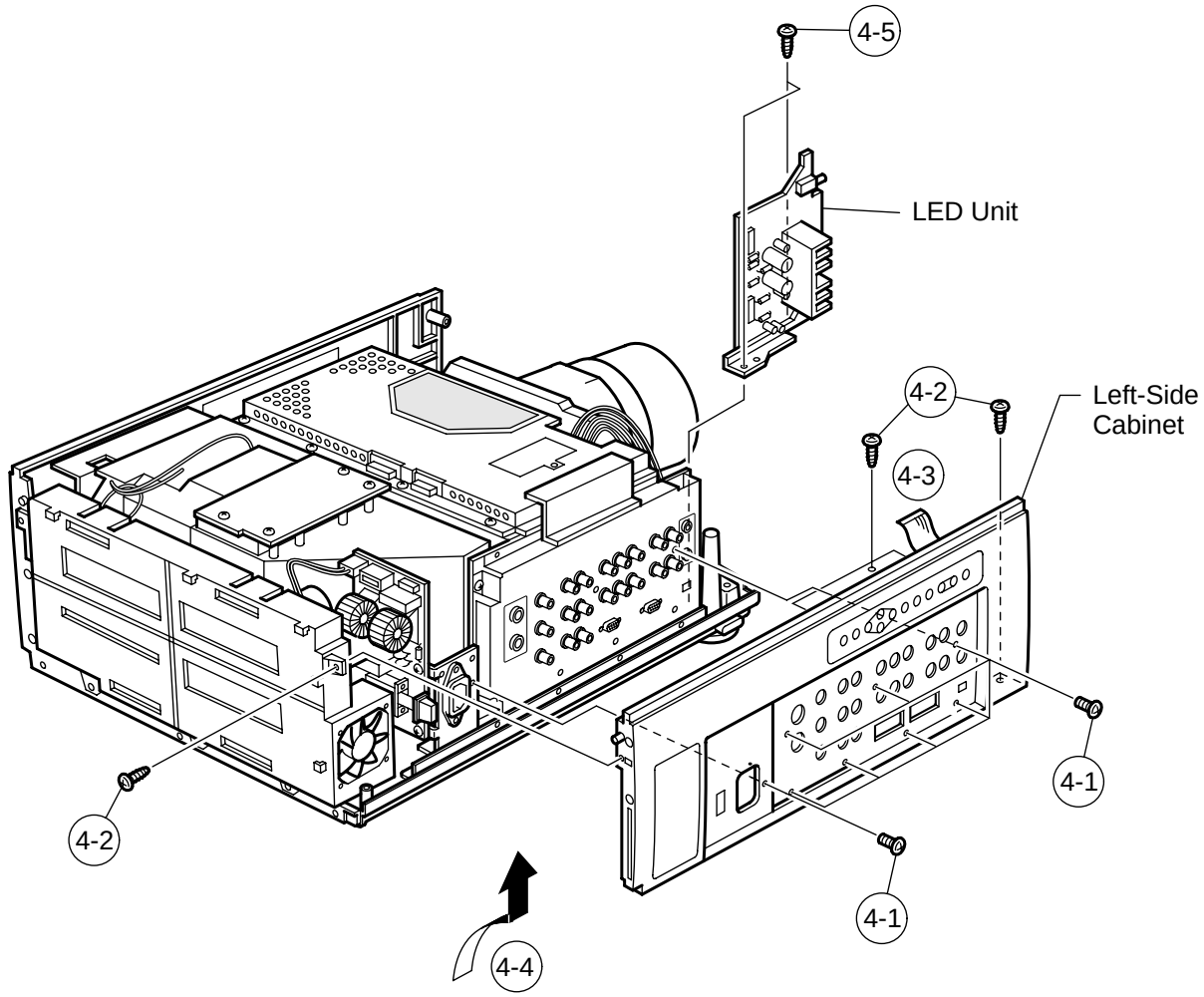
3. Removing the top and rear cabinets

3-1. Remove the five screws from the top and bottom of the rear cabinet.
3-2. Disconnect the speaker connector.
3-3. Slide back the top cabinet to separate the top and rear cabinets.



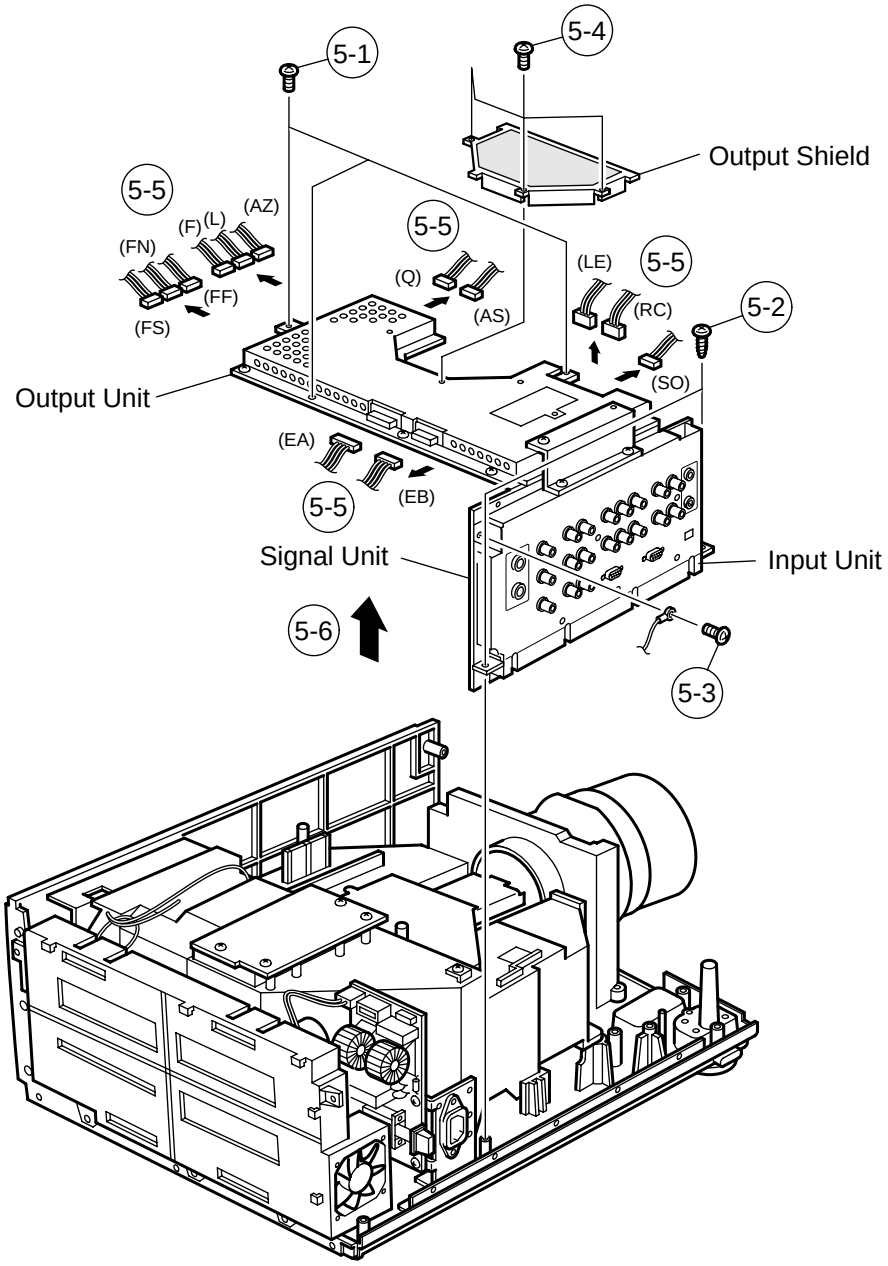
4. Removing the left side cabinet

4-1. Remove the eight side screws.
4-2. Remove the three screws off the side cabinet.
4-3. Disconnect the membrane switch connector.
4-4. Pull down and detach the left side cabinet.
4-5. Remove the two screws off the LED PWB assembly.



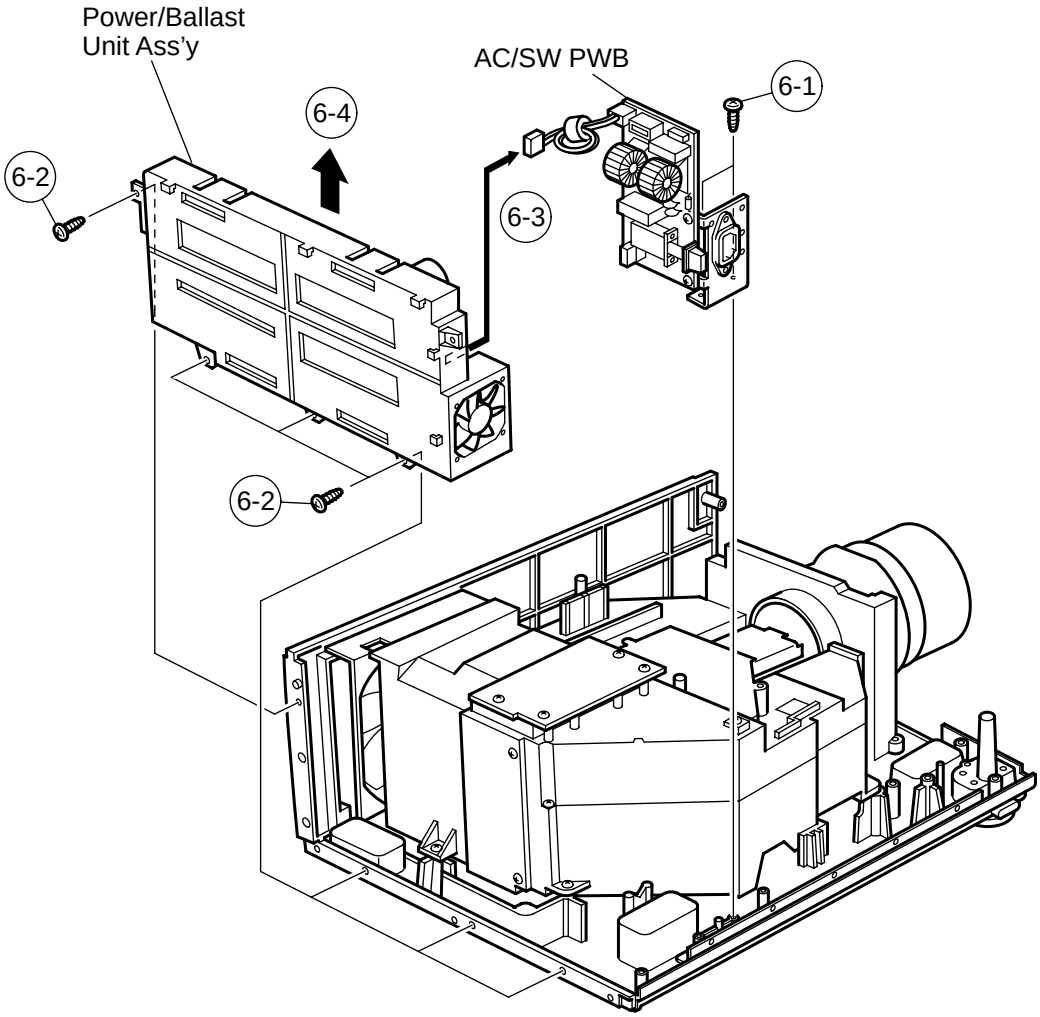
5. Disconnecting the signal and output PWBs

5-1. Remove the three screws off the optical mechanism assembly.
5-2. Remove the two screws off the bottom cabinet.
5-3. Remove the screw off the signal PWB assembly.
5-4. Remove the three screws off the output PWB assembly.
5-5. Disconnect the connectors of the signal PWB and output PWB assemblies.
5-6. Take up and away the PWB assemblies.



6. Removing the power supply and ballast PWBs

6-1. Remove the two screws off the AC/SW PWB on the bottom cabinet.
6-2. Remove the four screws off the power/ballast holder (located behind).
6-3. Disconnect the connectors.
6-4. Take up and away the PWBs.

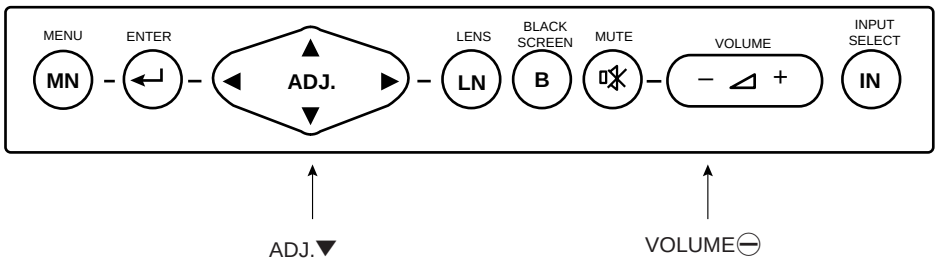


RESETTING THE LAMP TIMER

The unit is designed to keep its power off when the lamp has been used for 1400 and 1500 hours. This is to protect the lamp fixture. Replace the lamp with new one and take the following resetting procedure.

Resetting the lamp operating timer

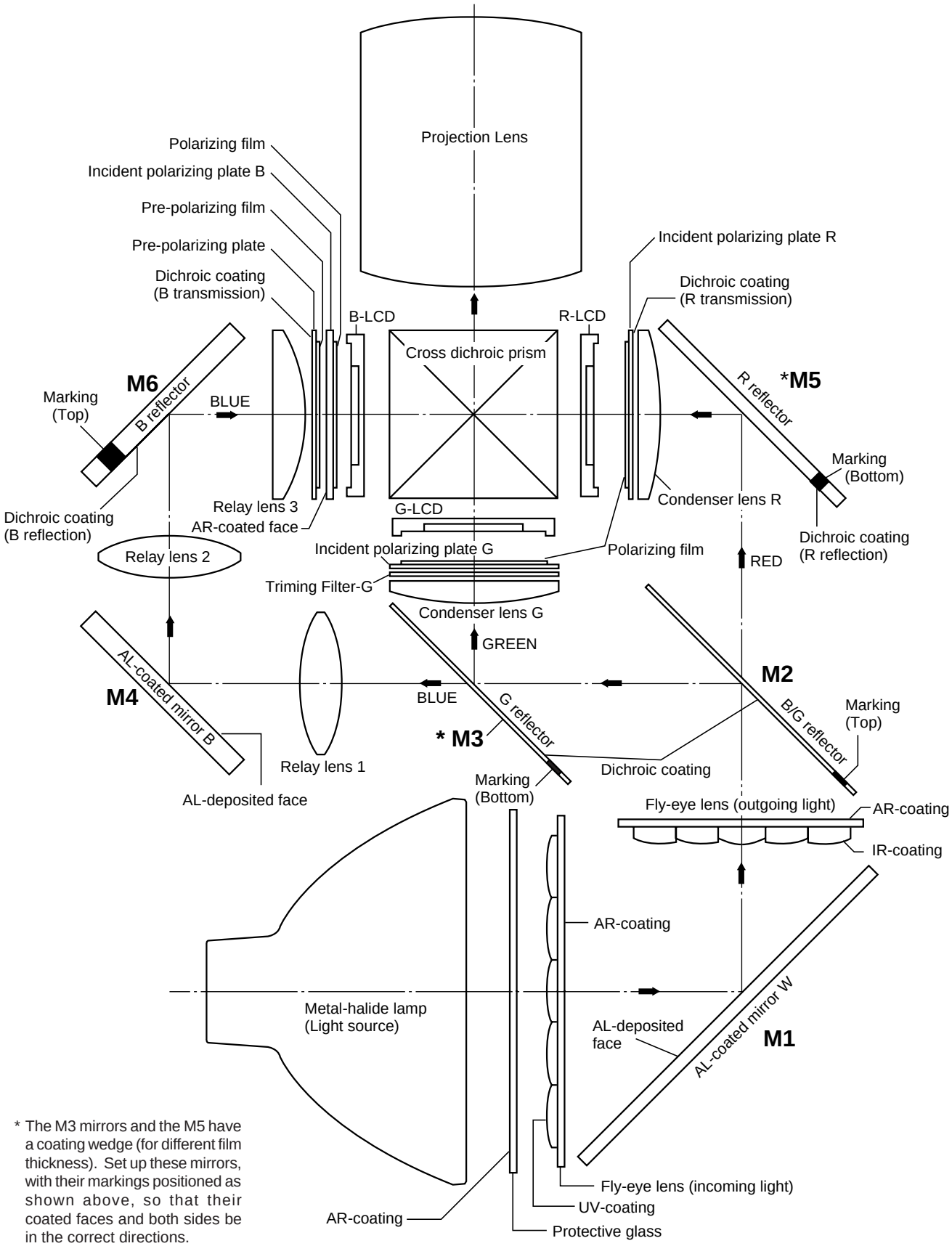
1. Hold down the “ADJ.▼” and “VOLUME⊖” buttons on the unit, and turn on the main power switch (located above the AC inlet).
2. Now the unit is turned on and the lamp operating timer is reset to zero. “0000H” appears on the screen.



THE OPTICAL UNIT OUTLINE

Layout of the optical system

Note: Layout for positioning the optical system.



* The M3 mirrors and the M5 have a coating wedge (for different film thickness). Set up these mirrors, with their markings positioned as shown above, so that their coated faces and both sides be in the correct directions.

CONVERGENCE AND FOCUS ADJUSTMENT

- **Start the convergence and focus adjustments with the top cabinet and the signal shield removed but the power on. Use the remote control to adjust the image. Take the following procedures.**

1. Focusing the projection lens

(A) Replacing all the 3 LCD panels

1. Before replacing all the 3 LCD panels, project an image on the screen and bring it into focus.
2. Replace the panels with new ones. But until the focus has been completely readjusted, be careful not to change the distance between the set and the screen, nor to move the projection lens focus and zoom rings.

(If the focus is readjusted with a different positional relation, the relation between the projection distance and the screen size is affected. In other words, a short-distance image (40 WIDE, for example) may get out of the focus range, or a long-distance image (300 WIDE, for example) may come out of focus.)

(B) Replacing 1 or 2 of the 3 LCD panels

1. In adjusting the focus after replacement of one or two LCD panels, project an image on the screen and turn the projection lens focus ring to get the non-replaced LCD panel into focus.
2. But until the focus has been completely adjusted for the new LCD panels, be careful not to change the distance between the set and the screen, nor to move the projection lens focus and zoom rings.
   (If the distance has been changed or the projection lens readjusted, repeat the above steps 1 and 2.)

2. Adjusting the G-LCD panel

(A) Focus adjustment. (Make this adjustment on the white-only screen.)

1. Right-and-left focus adjustment (θY direction) .
   Loosen the lock screws "b" and "c" and insert the eccentric screwdriver into the notch and hole "b" or "c". Turn the screwdriver until the right and left halves on the screen get into focus.

(First get the right and left halves in balance. Then improve the accuracy while making the adjustment 2 below.)

2. Top-center-bottom focus adjustment (θX and Z directions).
   Loosen the lock screws "a" and "b" and insert the eccentric screwdriver into the notch and hole "a". Turn the screwdriver until the top, center and bottom on the screen get into focus. In adjusting this top-to-bottom focus, temporarily tighten the lock screw "b" to fix the θY direction adjustment.
3. Repeat the above steps 1 and 2 to finely adjust the focus. Finally tighten up all the lock screws.

Notes :

① Carefully proceed with the focus adjustment because the adjusting directions are correlated.
② In adjusting the convergence and focus, do not move the projection lens zoom and focus rings until the end of all the adjustments.

(B) Convergence adjustment

- The G-LCD panel has no convergence adjustment mechanism. Use this panel as convergence adjustment reference.

3. B-LCD panel adjustment (the same for the R-LCD panel)

(A) Focus adjustment

- Take the same procedure as for the G-LCD panel focus adjustment. Note that the adjustment range is small in the Z direction. If the convergence is quite different between the B-LCD and G-LCD panels, roughly adjust the convergence first and then the focus.

(B) Convergence adjustment

- Use a crosshatch pattern signal for this adjustment.
  Make the adjustment just for the G-color and the relevant color.
  (1) Loosen the convergence lock screw "d".
  (2) With the G-LCD panel's screen center as reference, adjust the B-LCD panel in the X, Y and θZ directions.
  (3) Finally tighten up the convergence lock screw "d".

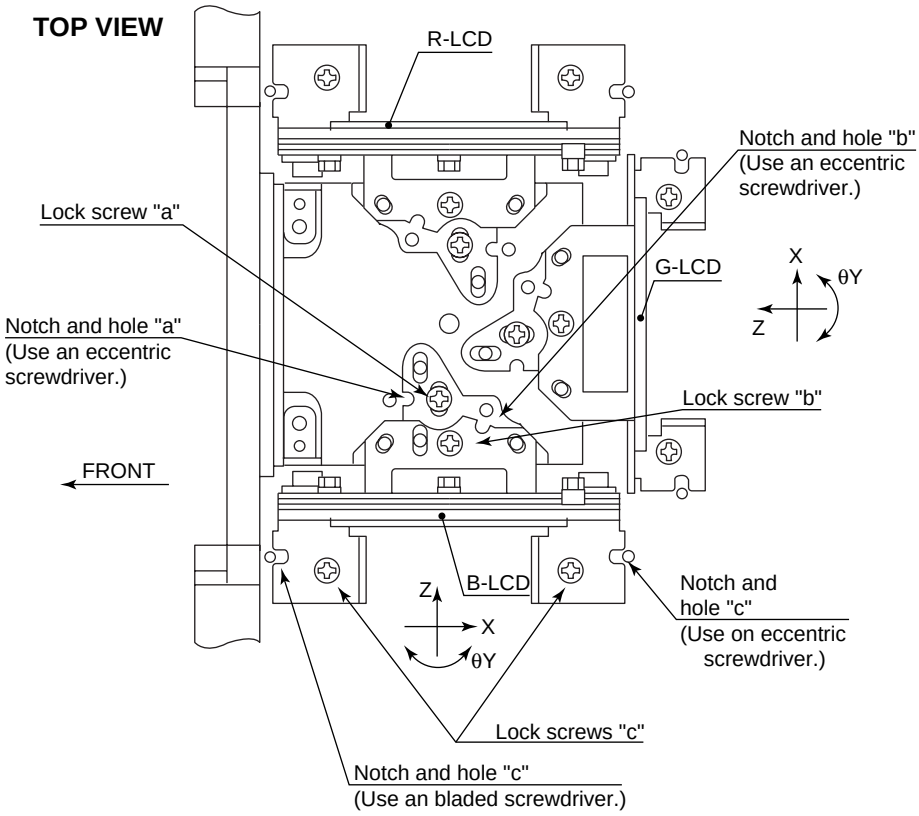
Notes :

① The eccentric cam is used for convergence adjustment. This means that the cam's turning and the linear movement are not always uniform.

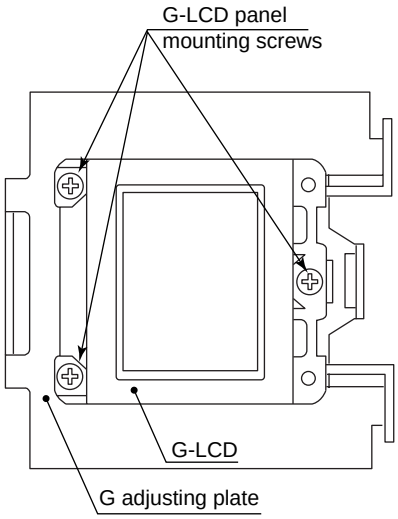
② This model is not equipped with the LCD image adjustment mechanism. This is because the dichroic prism is used for image formation. When the LCD panels all get into the best focus, the images are almost completely converged.

Convergence and Focus Adjustments Mechanism

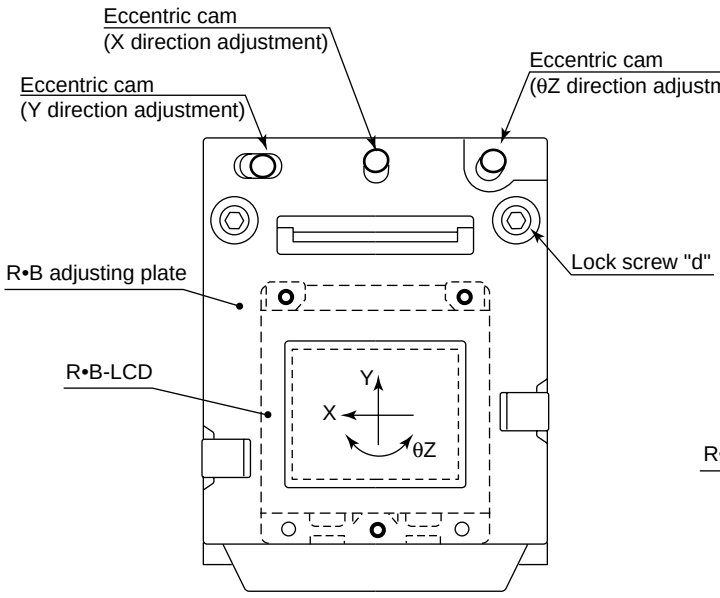
TOP VIEW



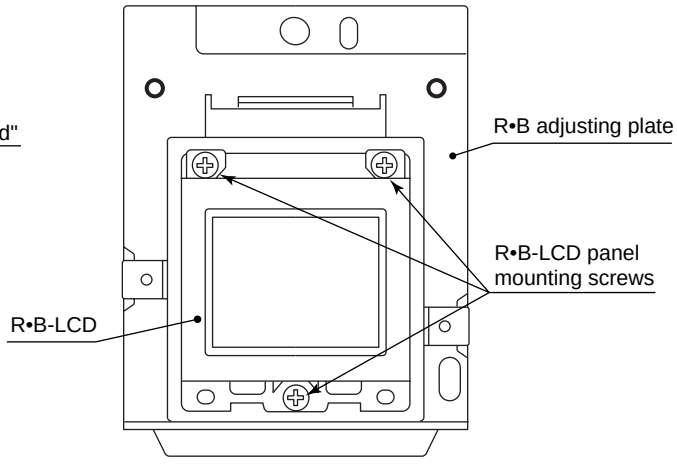
SIDE VIEW



SIDE VIEW (from inside)



SIDE VIEW (from outside)



Convergence and Focus Adjustments at a Glance

Adjustment directions

Adjustment	Direction	Definition	Direction of LCD panel
Convergence	X direction		LCD right and left
	Y direction		LCD top and bottom
	θZ direction	Rotation around Z axis	LCD turning axis
Focus	Z direction		LCD optical axis
	θX direction	Rotation around X axis	LCD top-to-bottom flapping
	θY direction	Rotation around Y axis	LCD right-to-left flapping

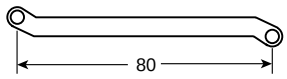
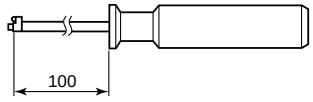
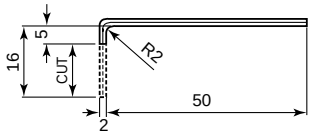
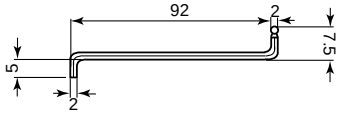
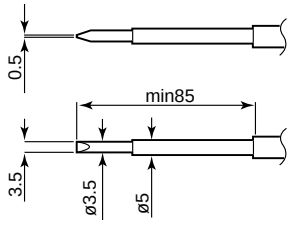
Convergence and Focus Adjustment for the XV-ZW99U Optical Mechanism

Color	Adjustment	Direction	Movement	Position	Adjusting tool	Lock screw	Tightening tool
R/B colors	Convergence	X direction	±0.8mm	Eccentric cam	Eccentric cam adjusting wrench	d	Hex wrench
		Y direction	±0.8mm	Eccentric cam	Eccentric cam adjusting wrench	d	Hex wrench
		θZ direction	±1°	Eccentric cam	Eccentric cam adjusting wrench	d	Hex wrench
	Focus	Z direction	±1mm	Notch and hole "a" & "c"	Eccentric screwdriver, Bladed screwdriver	a, c	Phillips screwdriver
		θX direction	±1°	Notch and hole "a" & "c"		a, c	
		θY direction	±1°	Notch and hole "b" & "c"		b, c	
G color	Focus	Z direction	±0.5mm	Same as for R and B colors			
		θX direction	±1°				
		θY direction	±1°				

Focus Adjustments the Other Way

Lock screw	Position	Related direction
a	Notch and hole "a"	Z and θX directions
b	Notch and hole "b"	θY direction
c	Notch and hole "c"	Z, θX and θY directions

Convergence and Focus Adjusting and Tightening Tools

Tool	Specific or General	Tool code	Configuration
Eccentric cam adjusting wrench	Specific	9DASPN-XGNV1U	
Eccentric screwdriver	Specific	9EQDRiVER-NV1A	
Hex wrench	General (redesigned)	9EQLNC-XGNV1U	
		9EQLNC-XGNV4U	
Bladed screwdriver	General	9EQDRiVER-NV1B	
Phillips screwdriver	General	—	For M2.6 pan-head machine screw

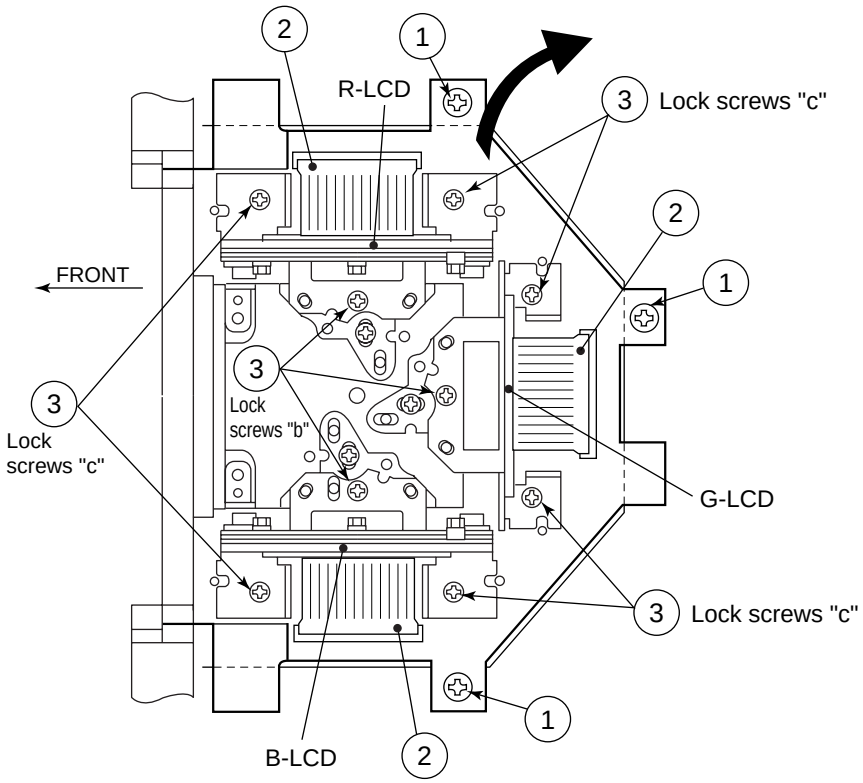
Replacing the LCDs

With the top cabinet removed

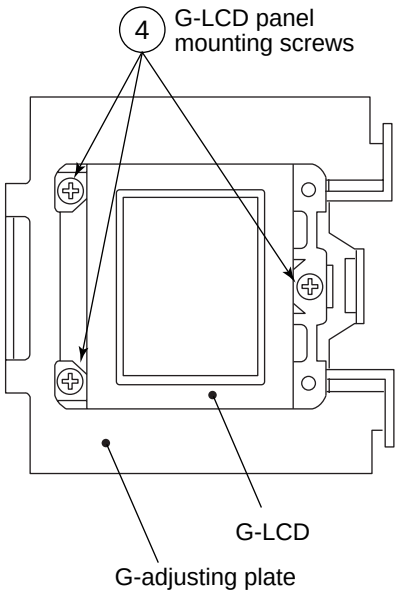
(1) Remove three screws off the output shield.
(2) Disconnect the LCD flat cable from the output PWB connector.
(3) Remove the lock screws "b" and "c". Detach the R/B adjusting plate or the G adjusting plate together with the LCD panel.
(4) Separate the LCD panel from the adjusting plate.
(5) Mount a new LCD panel in the reverse order of the above steps (1), (2), (3) and (4).

∗ Readjust the convergence and focus. Note that the G LCD panel needs no convergence adjustment and has a small adjustment range in the Z direction.

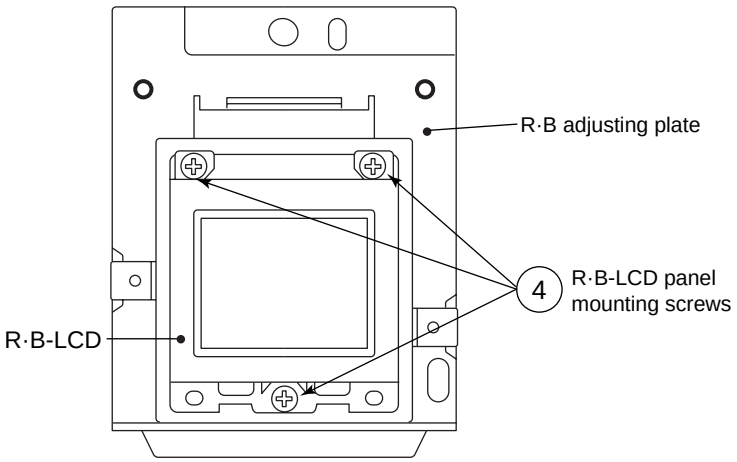
TOP VIEW



SIDE VIEW

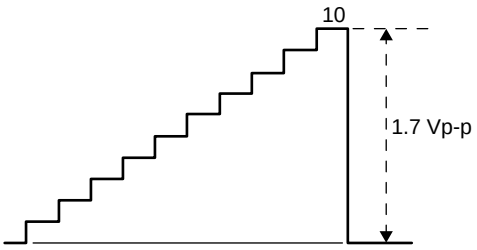
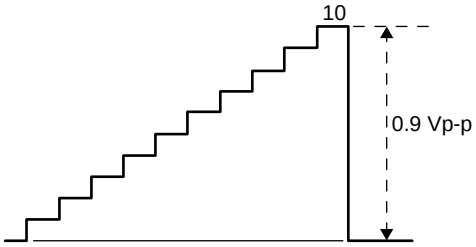
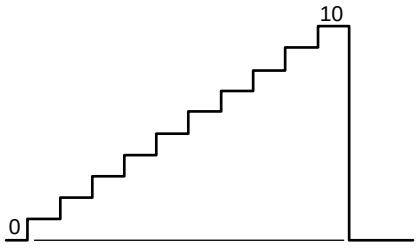


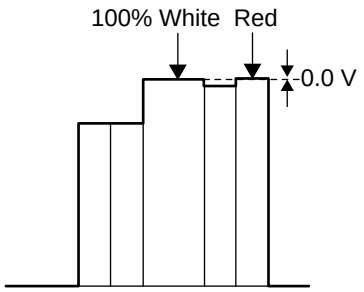
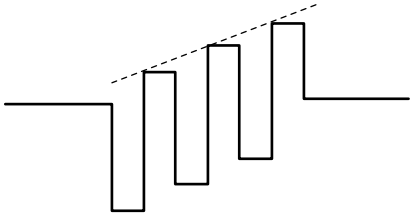
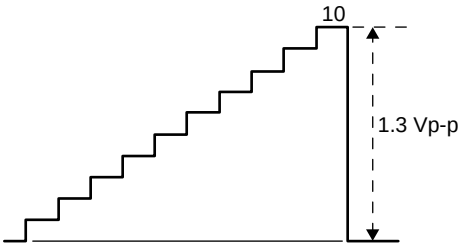
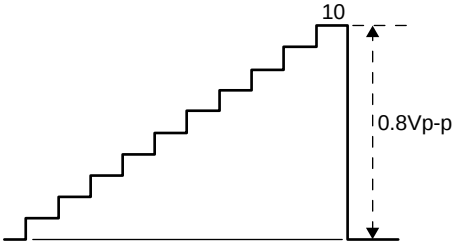
SIDE VIEW

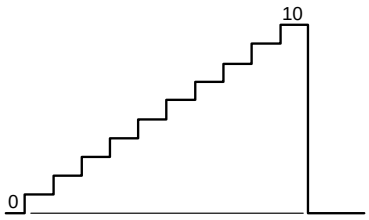
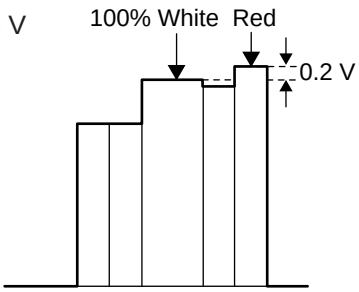
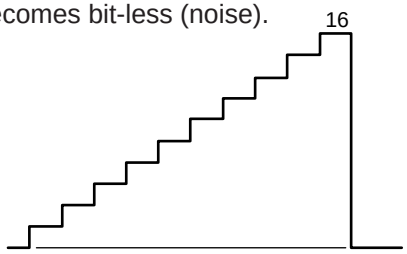
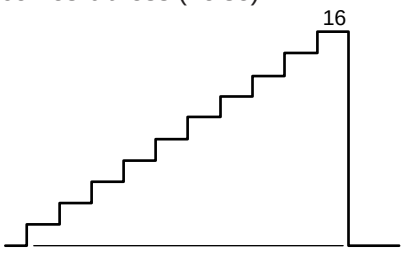


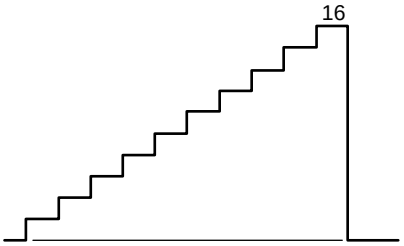
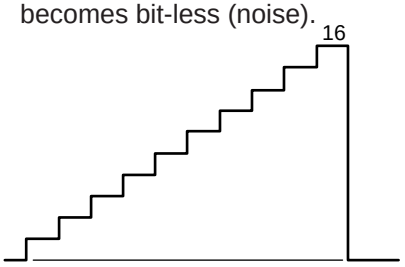
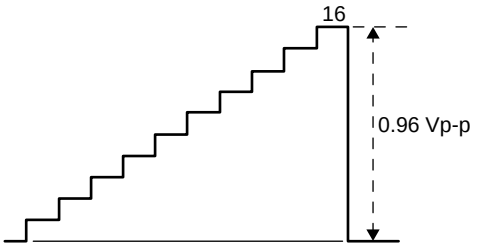
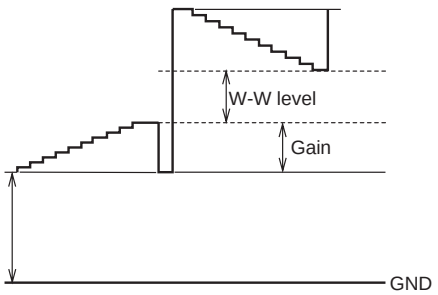
ELECTRICAL ADJUSTMENT

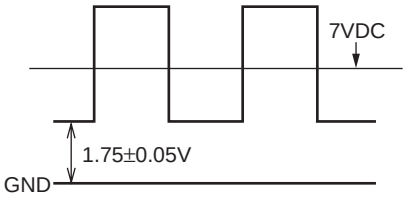
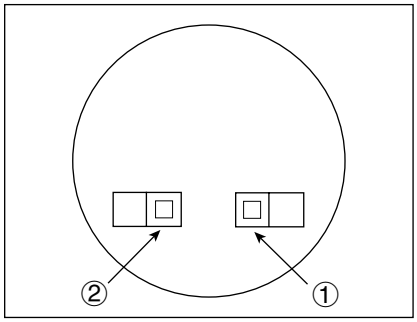
NOTE : The settings have been factory-adjusted to their best points. If any of them gets out of spec or after any relevant part has been replaced, make the related adjustment.

No.	Adjustment Position	Adjustment Conditions	Adjustment Method
1	**Video Contrast (DAC)**	1. Receive the NTSC 10-step pattern signal. 2. Connect a oscilloscope between pin (2) of P3004 and GND. 3. Press S2001 to call up the ADJ IN mode and select the following subject. Group: VIDEO 1 Subject: CONT	• Using the ▲ and ▼ keys, adjust the difference between the tenth-step level and the pedestal level to 1.7±0.05 Vp-p. 
2	**Video AGC (DAC)**	1. Receive the NTSC 10-step pattern signal. 2. Connect the oscilloscope between pin (2) of P3004 and GND. 3. Press S2001 to call up the ADJ IN mode and select the following subject. Group: VIDEO 1 Subject: AGCADJ	• Using the ▲ and ▼ keys, adjust the difference between the tenth-step level and the pedestal level to 0.9±0.05 Vp-p. 
3	**Video Brightness (DAC)**	1. Receive the NTSC 10-step pattern signal. 2. Connect the oscilloscope between pin (2) of P3004 and GND. 3. Press S2001 to call up the ADJ IN mode and select the following subject. Group: VIDEO 1 Subject: BRIGHT	• Using the ▲ and ▼ keys, adjust the data so that the pedestal level signal becomes green bit-less (noise). 

No.	Adjustment Position	Adjustment Conditions	Adjustment Method
4	**Video Color (DAC)**	1. Receive the color bar signal. 2. Connect the oscilloscope between pin (1) of P3004 and GND. 3. Press S2001 to call up the ADJ IN mode and select the following subject. Group: VIDEO 1 Subject: COLOR	• Using the ▲ and ▼ keys, adjust the difference between the 100% white level and the primary red level to 0.0±0.05 V 
5	**Video Tint (DAC)**	1. Receive the color bar signal. 2. Connect the oscilloscope between pin (3) of P3004 and GND. 3. Press S2001 to call up the ADJ IN mode and select the following subject. Group: VIDEO 1 Subject: TINT	• Using the ▲ and ▼ keys, adjust the (B-Y) signal waveform to slope down straight. 
6	**Component Contrast (DAC)**	1. Feed the NTSC 10-step pattern signal to the component terminal. 2. Connect the oscilloscope between pin (6) of P3004 and GND. 3. Press S2001 to call up the ADJ IN mode and select the following subject. Group: COMPO Subject: CONT	• Using the ▲ and ▼ keys, adjust the difference between the tenth-step level and the pedestal level to 1.3±0.05 Vp-p. 
7	**Component AGC (DAC)**	1. Receive the NTSC 10-step pattern signal. 2. Connect the oscilloscope between pin (6) of P3004 and GND. 3. Press S2001 to call up the ADJ IN mode and select the following subject. Group: COMPO Subject: CAGCADJ	• Using the ▲ and ▼ keys, adjust the difference between the tenth-step level and the pedestal level to 0.8±0.05 Vp-p. 

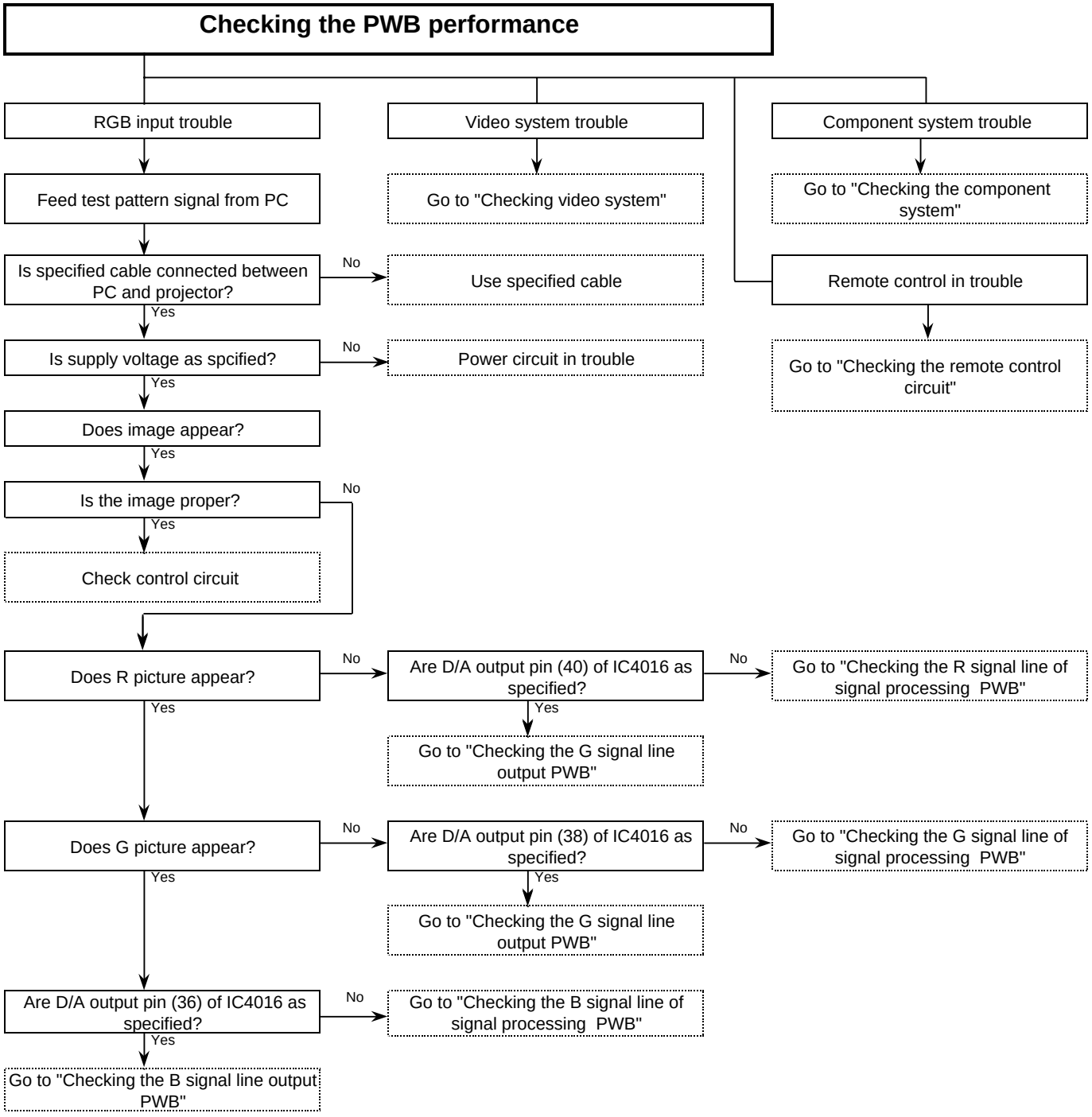
No.	Adjustment Position	Adjustment Conditions	Adjustment Method
8	**Component Brightness (DAC)**	1. Feed the NTSC 10-step pattern signal to the component terminal. 2. Connect the oscilloscope between pin (6) of P3004 and GND. 3. Press S2001 to call up the ADJ IN mode and select the following subject. Group: COMPO Subject: BRIGHT	• Using the ▲ and ▼ keys, adjust the data so that the pedestal level signal becomes green bit-less (noise).  • If the voltage is not properly adjusted, select the following subject and adjust again. Group: COMPO Subject: BRT2
9	**Component Color (DAC)**	1. Feed the NTSC color bar signal to the component terminal. 2. Connect the oscilloscope between pin (5) of P3004 and GND. 3. Press S2001 to call up the ADJ IN mode and select the following subject. Group: COMPO Subject: COLOR	• Using the ▲ and ▼ keys, adjust the difference between the 100% white level and the red level to 0.2±0.05 V  • If the voltage is not properly adjusted, select the following subject and adjust again. Group: COMPO Subject: COL2
10	**RGB Brightness (DAC)**	1. Feed the 16-step pattern signal(VGA or SVGA) to the computer input terminal. 2. Connect the oscilloscope between pin (2) of P3004 and GND. 3. Press S2001 to call up the ADJ IN mode and select the following subject. Group: RGB Subject: BRIGHT	• Using the ▲ and ▼ keys, adjust the data so that the pedestal level signal becomes bit-less (noise). 
11	**R Offset** **B Offset**	1. Feed the 16-step pattern signal(VGA or SVGA) to the computer input terminal. 2. Connect the dual-beam oscilloscope between pin (1) of P3004,pin(3) of P3004 and GND. 3. Press S2001 to call up the ADJ IN mode and select the following subject. Group: RGB, RGB Subject: R-OS, B-OS	• Using the ▲ and ▼ keys, adjust the data so that the pedestal level becomes bit-less (noise). 

No.	Adjustment Position	Adjustment Conditions	Adjustment Method
12	**RGB Contrast (DAC)**	1. Feed the 16-step pattern signal(VGA or SVGA) to the computer input terminal. 2. Connect the oscilloscope between pin (2) of P3004 and GND. 3. Press S2001 to call up the ADJ IN mode and select the following subject. Group: RGB Subject: GAIN	• Using the ▲ and ▼ keys, adjust the data so that the 16th-step level becomes green bit-less (noise). 
13	**R drive B drive (DAC)**	1. Feed the 16-step pattern signal(VGA or SVGA) to the computer input terminal. 2. Connect the dual-beam oscilloscope between pin (1) of P3004,pin(3) of P3004 and GND. 3. Press S2001 to call up the ADJ IN mode and select the following subject. Group: RGB, RGB Subject: R-D, B-D	• Using the ▲ and ▼ keys, adjust the data so that the 16th-step level becomes bit-less (noise). 
14	**OSD Mix-amp gain**	1. Feed the 16-step pattern signal(VGA or SVGA) to the computer input terminal. 2. Connect the oscilloscope between pin (2) of P1002 and GND. 3. Press S2001 to call up the ADJ IN mode and select the following subject. Group: OUTPUT2 Subject: MC	• Using the ▲ and ▼ keys, adjust the difference between the sixteenth-step level and the pedestal level to 0.96 ±0.05 Vp-p. 
15	**RGB White-White level RGB Gain (DAC)**	1. Feed the 16-step pattern signal(VGA or SVGA) to the computer input terminal. 2. R: Connect the oscilloscope between TP1030 and GND. G: Connect the oscilloscope between TP1032 and GND. B: Connect the oscilloscope between TP1035 and GND. 3. Press S2001 to call up the ADJ IN mode and select the following subject. R: Group: OUTPUT1 Subject: R-BLK, R-GAIN G: Group: OUTPUT1 Subject: G-BLK, G-GAIN B: Group: OUTPUT1 Subject: B-BLK, B-GAIN	• Using the ▲ and ▼ keys, adjust the difference between the gain and W-W level, as shown below.  R : Gain 3.3Vp-p, W-W level 2.6V G : Gain 3.3Vp-p, W-W level 2.6V B : Gain 3.3Vp-p, W-W level 2.6V

No.	Adjustment Position	Adjustment Conditions	Adjustment Method
16	**PSIG (DAC)**	1. R: Connect the oscilloscope between TP1031(R) and GND. G: Connect the oscilloscope between TP1033(G) and GND. B: Connect the oscilloscope between TP1034(B) and GND. 2. Press S2001 to call up the ADJ IN mode and select the following subject. Group: OUTPUT2 Subject: VPRG	• Adjust the (R) data to obtain the waveform shown below.  • Make sure the (G) and (B) waveforms are quite similar to the (R) waveform.
17	**RGB Counter Adjustment (DAC)**	1. Receive the computer input counter adjustment signal (S-VGA or VGA). 2. Press S2001 to call up the ADJ IN mode and select the following subject. Group: OUTPUT2 Subject: VRCOM(R) VGCOM(G) VBCOM(B)	• Using the ▲ and ▼ keys, adjust the data until there is least flickering on the screen.
18	**RGB gradation regeneration adjustment**	1. Feed the green-only SMPTE pattern signal. Group : OUTPUT 1 Subject : GBLK	• Adjust the G-GAIN data until the gradation of the portion ① (95% and 100% white) shown below can be slightly recognized. Make sure also that the gradation of the portion ② (0% and 5% black) is visible. 
19	**RGB Whitebalance (DAC)**	1. Receive the 32 steps grayscale signal (S-VGA or VGA). 2. Press S2001 to call up the ADJ IN mode and select the following subject. Group: RGB Subject: RBLK(R) BBLK	• Using the ▲ and ▼ keys, adjust the entire screen looks evenly colorless.

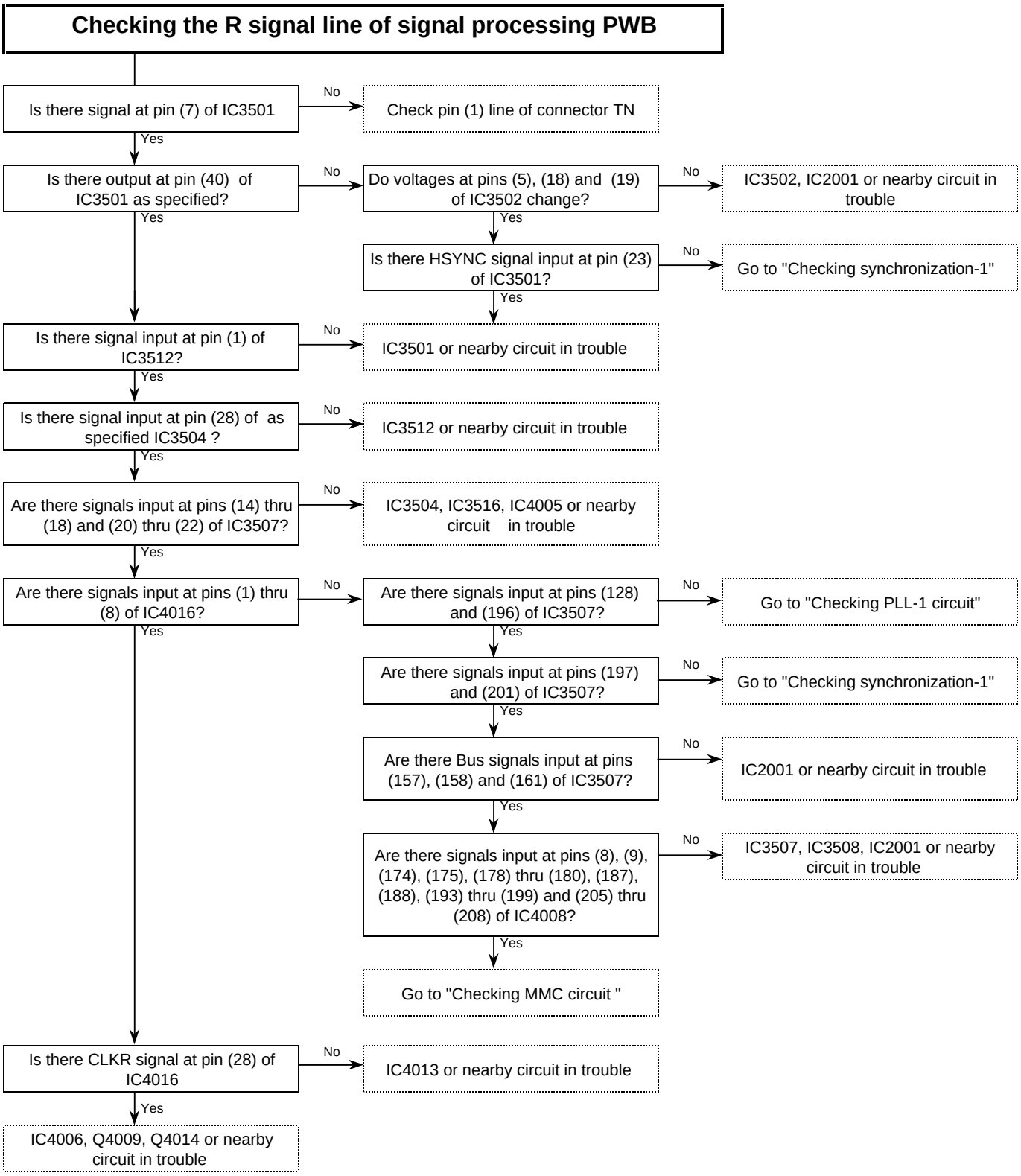
No.	Adjustment Position	Adjustment Conditions	Adjustment Method
20	**Video Whitebalance (DAC)**	1. Receive the NTSC monoscope pattern signal. 2. Press S2001 to call up the ADJ IN mode and select the following subject. Group: VIDEO1 Subject: RED(R) BLUE(B)	• Using the ▲ and ▼ keys, adjust the entire screen looks evenly colorless.
21	**Sawtooth Wave Correction Level**	1. Receive the NTSC monoscope pattern signal. 2. Choose full-screen image. (PICTURE MODE is pressed) 3. Projection distance 1.7m Picture size 40".	• Adjust R1418 until there is least horizontal color irregularity visible on the screen. • Move the Zoom lens wide to tele, Check the imbalance that adjust horizontal color irregularly.
22	**Horizontal Center (DAC)**	1. Receive the NTSC monoscope pattern signal . 2. Press S2001 to call up the ADJ IN mode and select the following subject. Group: VIDEO1 Subject: H-CENT	• Using the ▲ and ▼ keys, adjust the data to have the same overscan.
23	**Component Whitebalance**	1. Feed the NTSC monoscope pattern signal to the component terminal. 2. Press S2001 to call up the ADJ IN mode and select the following subject. Group: COMPO Subject: RED(R) BLUE(B)	• Using the ▲ and ▼ keys, adjust the entire screen looks evenly colorless.

TROUBLE SHOOTING TABLE

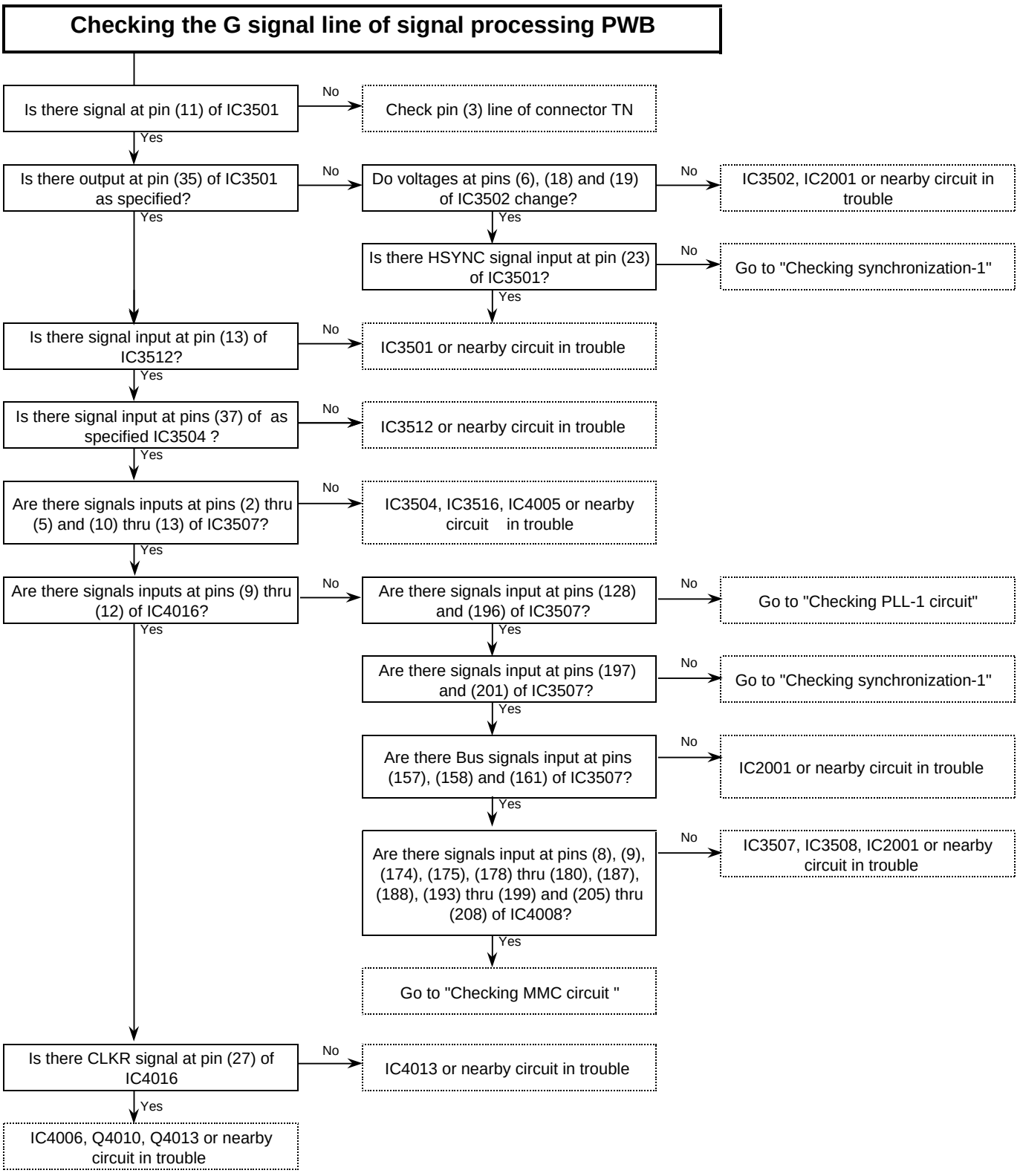

Checking the PWB performance
RGB input trouble
Feed test pattern signal from PC
Is specified cable connected between PC and projector?
No
Use specified cable
Yes
Is supply voltage as spcified?
No
Power circuit in trouble
Yes
Does image appear?
Yes
Is the image proper?
No
Yes
Check control circuit
Does R picture appear?
No
Are D/A output pin (40) of IC4016 as specified?
No
Go to "Checking the R signal line of signal processing PWB"
Yes
Go to "Checking the G signal line output PWB"
Yes
Does G picture appear?
No
Are D/A output pin (38) of IC4016 as specified?
No
Go to "Checking the G signal line of signal processing PWB"
Yes
Go to "Checking the G signal line output PWB"
Yes
Are D/A output pin (36) of IC4016 as specified?
No
Go to "Checking the B signal line of signal processing PWB"
Yes
Go to "Checking the B signal line output PWB"
Video system trouble
Go to "Checking video system"
Component system trouble
Go to "Checking the component system"
Remote control in trouble
Go to "Checking the remote control circuit"

TROUBLE SHOOTING TABLE (Coutinued)

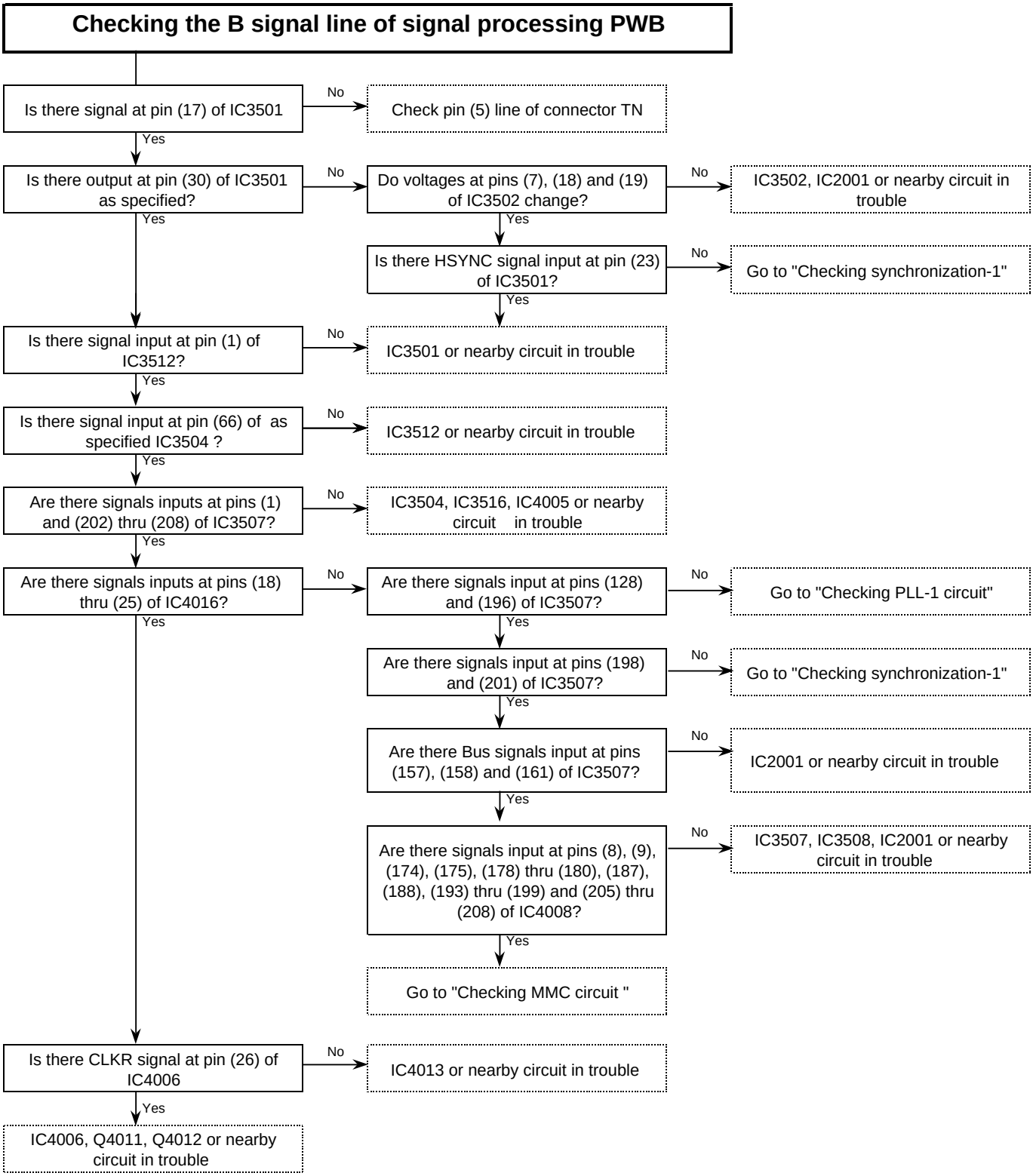
Checking the R signal line of signal processing PWB


Is there signal at pin (7) of IC3501
No
Check pin (1) line of connector TN
Yes
Is there output at pin (40) of IC3501 as specified?
No
Do voltages at pins (5), (18) and (19) of IC3502 change?
No
IC3502, IC2001 or nearby circuit in trouble
Yes
Yes
Is there HSYNC signal input at pin (23) of IC3501?
No
Go to "Checking synchronization-1"
Yes
Is there signal input at pin (1) of IC3512?
No
IC3501 or nearby circuit in trouble
Yes
Is there signal input at pin (28) of as specified IC3504 ?
No
IC3512 or nearby circuit in trouble
Yes
Are there signals input at pins (14) thru (18) and (20) thru (22) of IC3507?
No
IC3504, IC3516, IC4005 or nearby circuit in trouble
Yes
Are there signals input at pins (1) thru (8) of IC4016?
No
Are there signals input at pins (128) and (196) of IC3507?
No
Go to "Checking PLL-1 circuit"
Yes
Yes
Are there signals input at pins (197) and (201) of IC3507?
No
Go to "Checking synchronization-1"
Yes
Are there Bus signals input at pins (157), (158) and (161) of IC3507?
No
IC2001 or nearby circuit in trouble
Yes
Are there signals input at pins (8), (9), (174), (175), (178) thru (180), (187), (188), (193) thru (199) and (205) thru (208) of IC4008?
No
IC3507, IC3508, IC2001 or nearby circuit in trouble
Yes
Go to "Checking MMC circuit "
Is there CLKR signal at pin (28) of IC4016
No
IC4013 or nearby circuit in trouble
Yes
IC4006, Q4009, Q4014 or nearby circuit in trouble

TROUBLE SHOOTING TABLE (Coutinued)

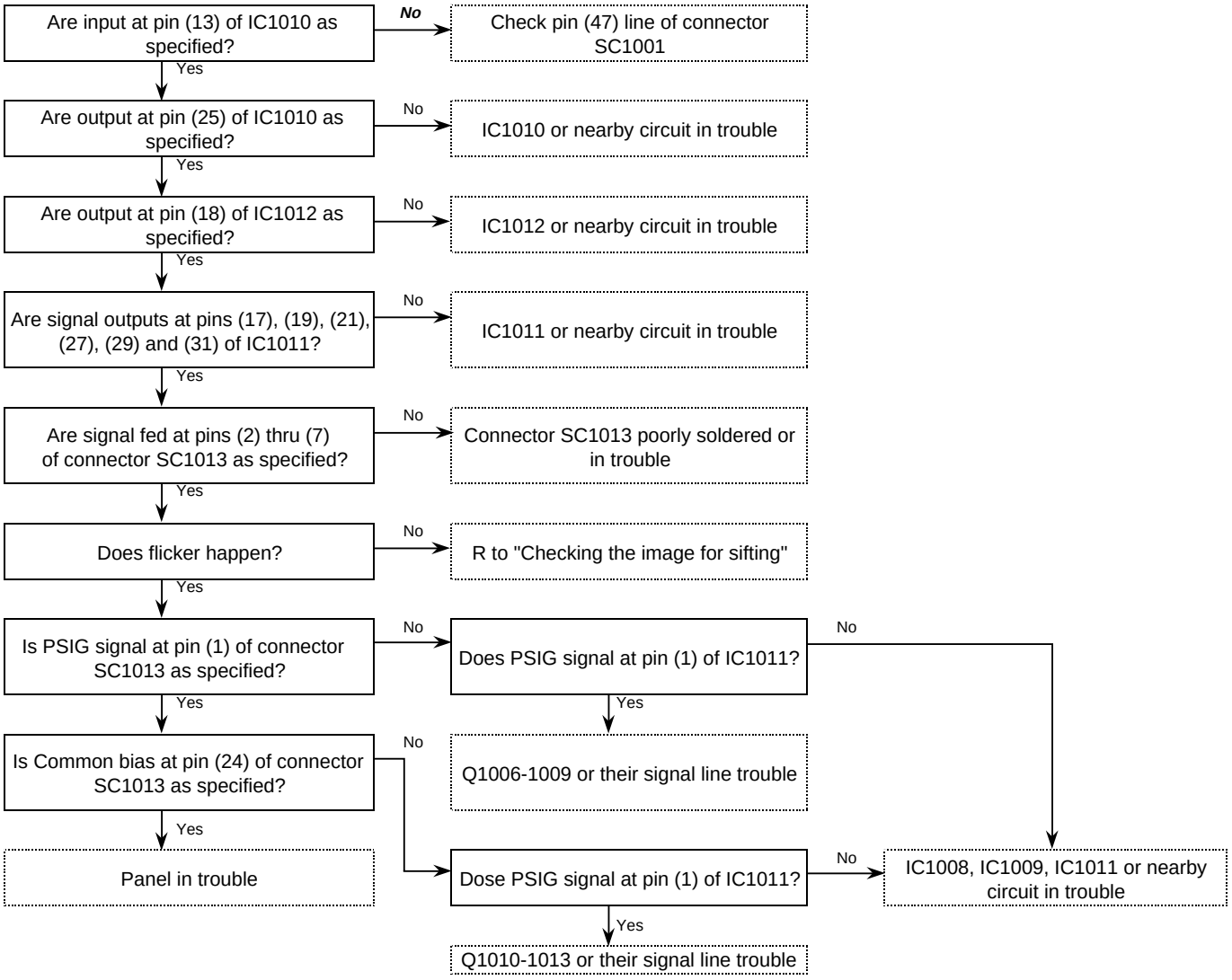

Checking the G signal line of signal processing PWB
Is there signal at pin (11) of IC3501
No
Check pin (3) line of connector TN
Yes
Is there output at pin (35) of IC3501 as specified?
No
Do voltages at pins (6), (18) and (19) of IC3502 change?
No
IC3502, IC2001 or nearby circuit in trouble
Yes
Yes
Is there HSYNC signal input at pin (23) of IC3501?
No
Go to "Checking synchronization-1"
Yes
Is there signal input at pin (13) of IC3512?
No
IC3501 or nearby circuit in trouble
Yes
Is there signal input at pins (37) of as specified IC3504 ?
No
IC3512 or nearby circuit in trouble
Yes
Are there signals inputs at pins (2) thru (5) and (10) thru (13) of IC3507?
No
IC3504, IC3516, IC4005 or nearby circuit in trouble
Yes
Are there signals inputs at pins (9) thru (12) of IC4016?
No
Are there signals input at pins (128) and (196) of IC3507?
No
Go to "Checking PLL-1 circuit"
Yes
Yes
Are there signals input at pins (197) and (201) of IC3507?
No
Go to "Checking synchronization-1"
Yes
Are there Bus signals input at pins (157), (158) and (161) of IC3507?
No
IC2001 or nearby circuit in trouble
Yes
Are there signals input at pins (8), (9), (174), (175), (178) thru (180), (187), (188), (193) thru (199) and (205) thru (208) of IC4008?
No
IC3507, IC3508, IC2001 or nearby circuit in trouble
Yes
Go to "Checking MMC circuit "
Is there CLKR signal at pin (27) of IC4016
No
IC4013 or nearby circuit in trouble
Yes
IC4006, Q4010, Q4013 or nearby circuit in trouble

TROUBLE SHOOTING TABLE (Coutinued)

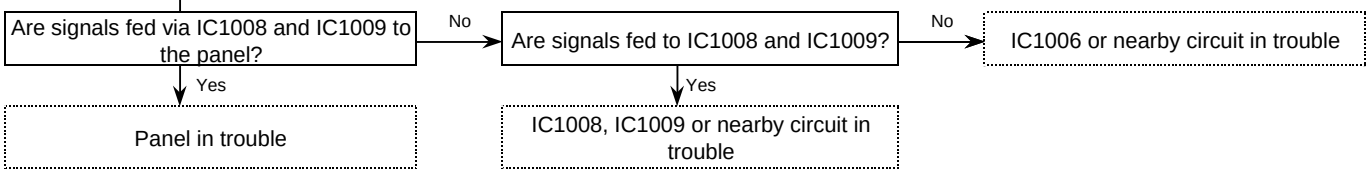

Checking the B signal line of signal processing PWB
Is there signal at pin (17) of IC3501
No
Check pin (5) line of connector TN
Yes
Is there output at pin (30) of IC3501 as specified?
No
Do voltages at pins (7), (18) and (19) of IC3502 change?
No
IC3502, IC2001 or nearby circuit in trouble
Yes
Yes
Is there HSYNC signal input at pin (23) of IC3501?
No
Go to "Checking synchronization-1"
Yes
Is there signal input at pin (1) of IC3512?
No
IC3501 or nearby circuit in trouble
Yes
Is there signal input at pin (66) of as specified IC3504 ?
No
IC3512 or nearby circuit in trouble
Yes
Are there signals inputs at pins (1) and (202) thru (208) of IC3507?
No
IC3504, IC3516, IC4005 or nearby circuit in trouble
Yes
Are there signals inputs at pins (18) thru (25) of IC4016?
No
Are there signals input at pins (128) and (196) of IC3507?
No
Go to "Checking PLL-1 circuit"
Yes
Are there signals input at pins (198) and (201) of IC3507?
No
Go to "Checking synchronization-1"
Yes
Are there Bus signals input at pins (157), (158) and (161) of IC3507?
No
IC2001 or nearby circuit in trouble
Yes
Are there signals input at pins (8), (9), (174), (175), (178) thru (180), (187), (188), (193) thru (199) and (205) thru (208) of IC4008?
No
IC3507, IC3508, IC2001 or nearby circuit in trouble
Yes
Go to "Checking MMC circuit "
Is there CLKR signal at pin (26) of IC4006
No
IC4013 or nearby circuit in trouble
Yes
IC4006, Q4011, Q4012 or nearby circuit in trouble

TROUBLE SHOOTING TABLE (Coutinued)

Checking the R signal line of output PWB

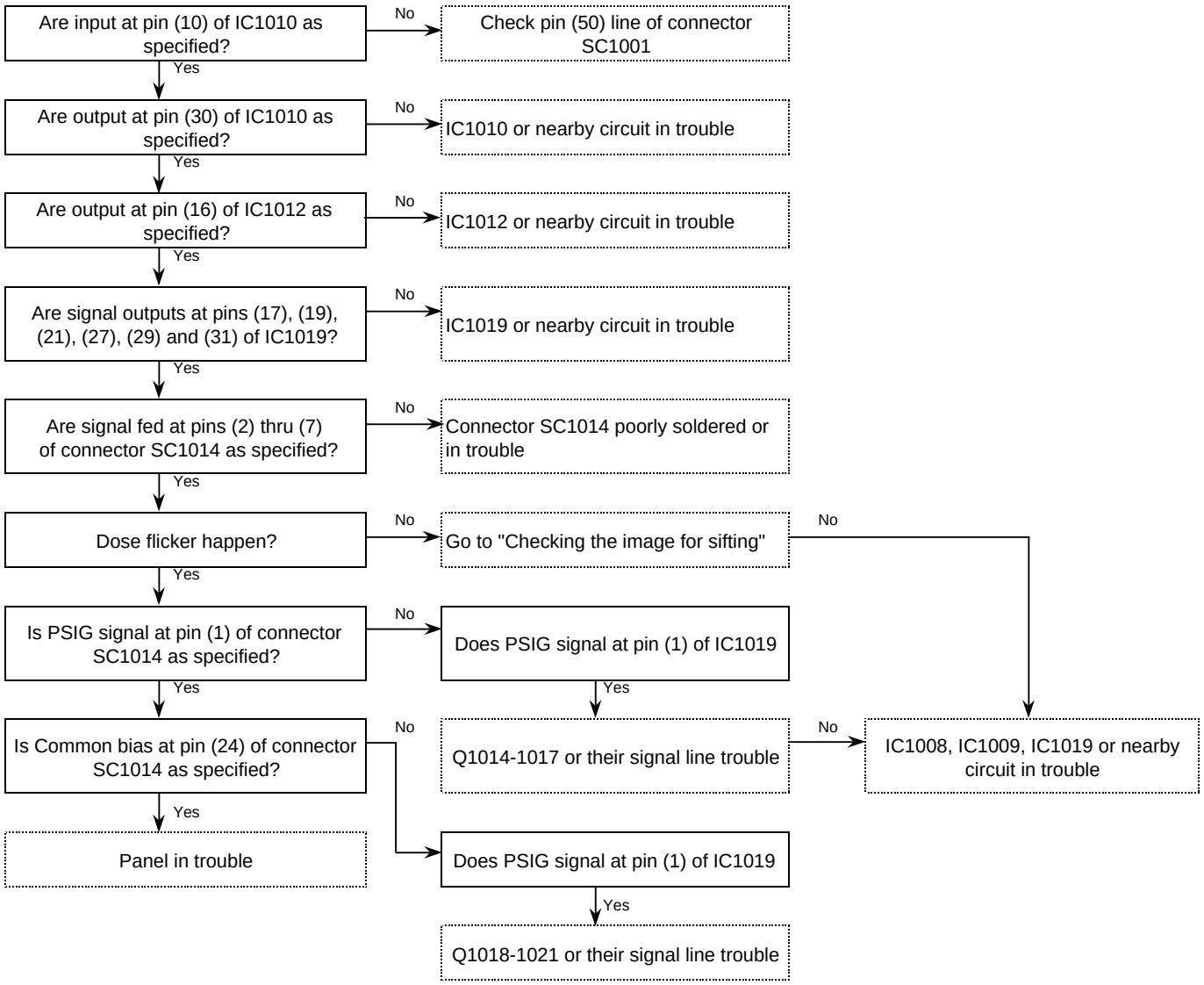

Are input at pin (13) of IC1010 as specified?
No
Check pin (47) line of connector SC1001
Yes
Are output at pin (25) of IC1010 as specified?
No
IC1010 or nearby circuit in trouble
Yes
Are output at pin (18) of IC1012 as specified?
No
IC1012 or nearby circuit in trouble
Yes
Are signal outputs at pins (17), (19), (21), (27), (29) and (31) of IC1011?
No
IC1011 or nearby circuit in trouble
Yes
Are signal fed at pins (2) thru (7) of connector SC1013 as specified?
No
Connector SC1013 poorly soldered or in trouble
Yes
Does flicker happen?
No
R to "Checking the image for sifting"
Yes
Is PSIG signal at pin (1) of connector SC1013 as specified?
No
Does PSIG signal at pin (1) of IC1011?
No
Yes
Is Common bias at pin (24) of connector SC1013 as specified?
No
Q1006-1009 or their signal line trouble
Yes
Panel in trouble
Dose PSIG signal at pin (1) of IC1011?
No
IC1008, IC1009, IC1011 or nearby circuit in trouble
Yes
Q1010-1013 or their signal line trouble

Checking the image for shifting


Are signals fed via IC1008 and IC1009 to the panel?
No
Are signals fed to IC1008 and IC1009?
No
IC1006 or nearby circuit in trouble
Yes
Yes
Panel in trouble
IC1008, IC1009 or nearby circuit in trouble

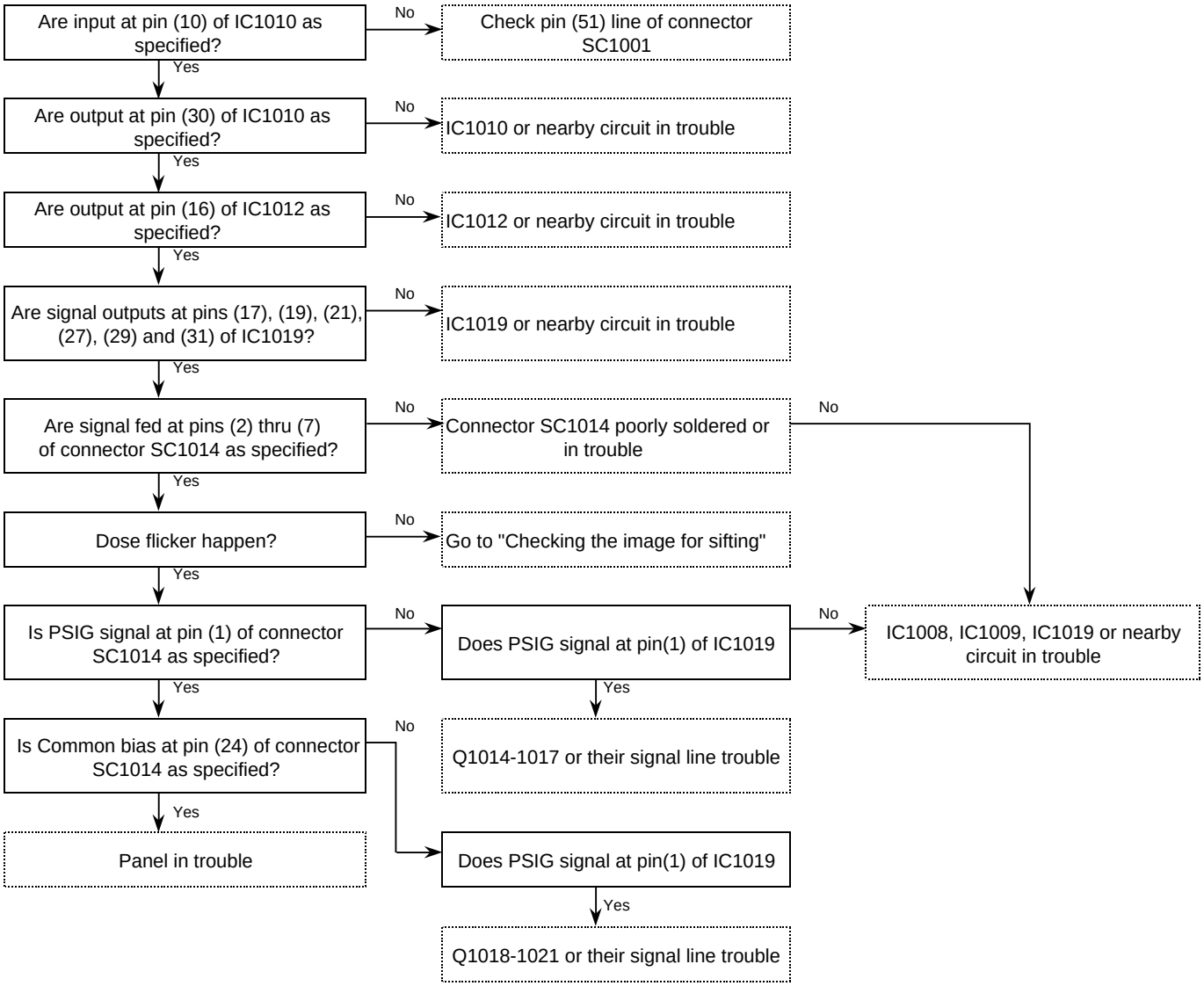
TROUBLE SHOOTING TABLE (Coutinued)

Checking the G signal line of output PWB

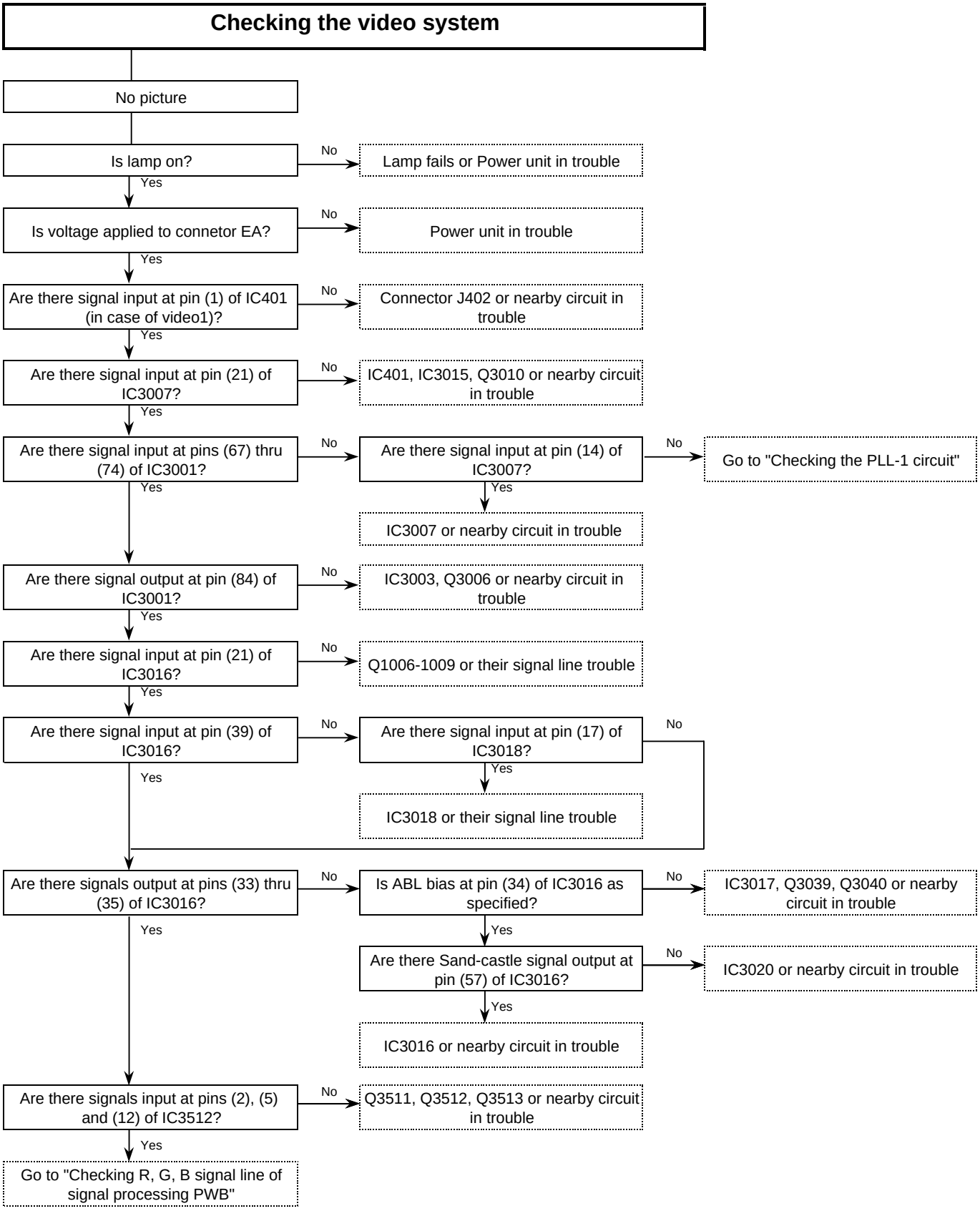

Are input at pin (10) of IC1010 as specified?
No
Check pin (50) line of connector SC1001
Yes
Are output at pin (30) of IC1010 as specified?
No
IC1010 or nearby circuit in trouble
Yes
Are output at pin (16) of IC1012 as specified?
No
IC1012 or nearby circuit in trouble
Yes
Are signal outputs at pins (17), (19), (21), (27), (29) and (31) of IC1019?
No
IC1019 or nearby circuit in trouble
Yes
Are signal fed at pins (2) thru (7) of connector SC1014 as specified?
No
Connector SC1014 poorly soldered or in trouble
Yes
Dose flicker happen?
No
Go to "Checking the image for sifting"
No
Yes
Is PSIG signal at pin (1) of connector SC1014 as specified?
No
Does PSIG signal at pin (1) of IC1019
Yes
Yes
Is Common bias at pin (24) of connector SC1014 as specified?
No
Q1014-1017 or their signal line trouble
No
IC1008, IC1009, IC1019 or nearby circuit in trouble
Yes
Panel in trouble
Does PSIG signal at pin (1) of IC1019
Yes
Q1018-1021 or their signal line trouble

TROUBLE SHOOTING TABLE (Coutinued)

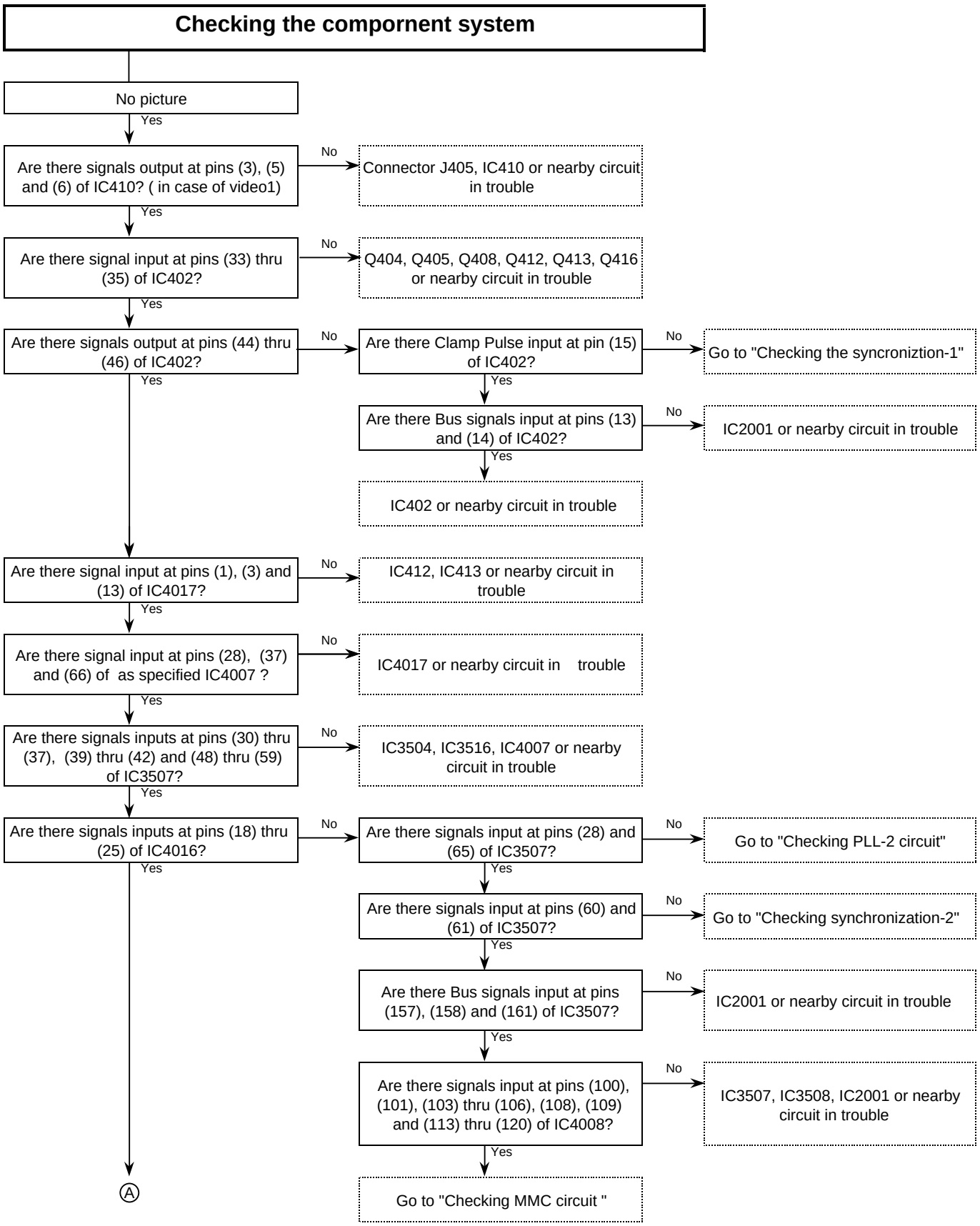
Checking the B signal line of output PWB


Are input at pin (10) of IC1010 as specified?
No
Check pin (51) line of connector SC1001
Yes
Are output at pin (30) of IC1010 as specified?
No
IC1010 or nearby circuit in trouble
Yes
Are output at pin (16) of IC1012 as specified?
No
IC1012 or nearby circuit in trouble
Yes
Are signal outputs at pins (17), (19), (21), (27), (29) and (31) of IC1019?
No
IC1019 or nearby circuit in trouble
Yes
Are signal fed at pins (2) thru (7) of connector SC1014 as specified?
No
Connector SC1014 poorly soldered or in trouble
No
Yes
Dose flicker happen?
No
Go to "Checking the image for sifting"
Yes
Is PSIG signal at pin (1) of connector SC1014 as specified?
No
Does PSIG signal at pin(1) of IC1019
No
IC1008, IC1009, IC1019 or nearby circuit in trouble
Yes
Yes
Is Common bias at pin (24) of connector SC1014 as specified?
No
Q1014-1017 or their signal line trouble
Yes
Panel in trouble
Does PSIG signal at pin(1) of IC1019
Yes
Q1018-1021 or their signal line trouble

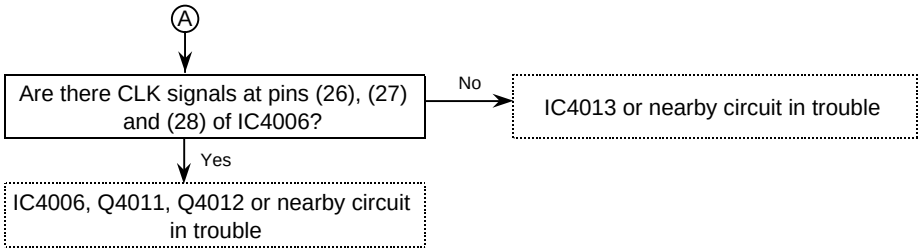
TROUBLE SHOOTING TABLE (Coutinued)


Checking the video system
No picture
Is lamp on?
No
Lamp fails or Power unit in trouble
Yes
Is voltage applied to connetor EA?
No
Power unit in trouble
Yes
Are there signal input at pin (1) of IC401 (in case of video1)?
No
Connector J402 or nearby circuit in trouble
Yes
Are there signal input at pin (21) of IC3007?
No
IC401, IC3015, Q3010 or nearby circuit in trouble
Yes
Are there signal input at pins (67) thru (74) of IC3001?
No
Are there signal input at pin (14) of IC3007?
No
Go to "Checking the PLL-1 circuit"
Yes
Yes
IC3007 or nearby circuit in trouble
Are there signal output at pin (84) of IC3001?
No
IC3003, Q3006 or nearby circuit in trouble
Yes
Are there signal input at pin (21) of IC3016?
No
Q1006-1009 or their signal line trouble
Yes
Are there signal input at pin (39) of IC3016?
No
Are there signal input at pin (17) of IC3018?
No
Yes
Yes
IC3018 or their signal line trouble
Are there signals output at pins (33) thru (35) of IC3016?
No
Is ABL bias at pin (34) of IC3016 as specified?
No
IC3017, Q3039, Q3040 or nearby circuit in trouble
Yes
Yes
Are there Sand-castle signal output at pin (57) of IC3016?
No
IC3020 or nearby circuit in trouble
Yes
IC3016 or nearby circuit in trouble
Are there signals input at pins (2), (5) and (12) of IC3512?
No
Q3511, Q3512, Q3513 or nearby circuit in trouble
Yes
Go to "Checking R, G, B signal line of signal processing PWB"

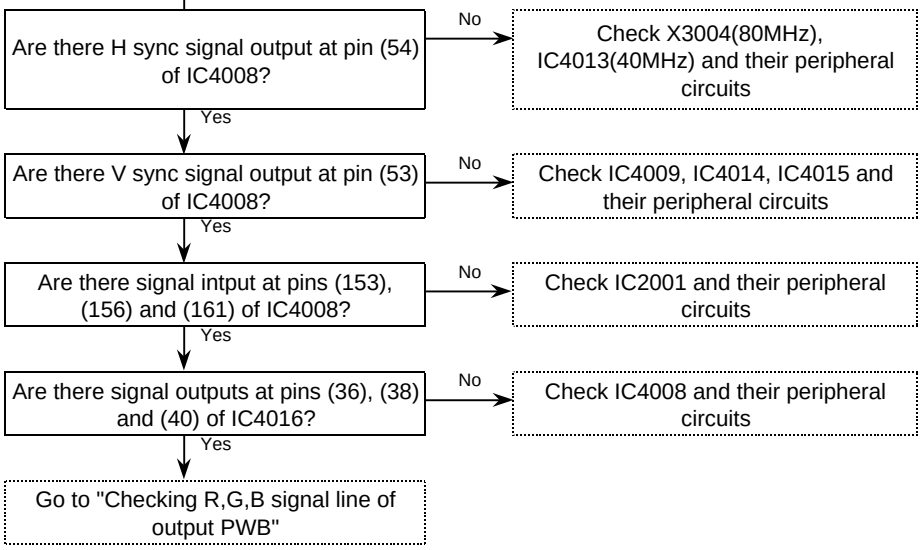
TROUBLE SHOOTING TABLE (Coutinued)


Checking the compornent system
No picture
Yes
Are there signals output at pins (3), (5) and (6) of IC410? (in case of video1)
No
Connector J405, IC410 or nearby circuit in trouble
Yes
Are there signal input at pins (33) thru (35) of IC402?
No
Q404, Q405, Q408, Q412, Q413, Q416 or nearby circuit in trouble
Yes
Are there signals output at pins (44) thru (46) of IC402?
No
Are there Clamp Pulse input at pin (15) of IC402?
No
Go to "Checking the syncroniztion-1"
Yes
Are there Bus signals input at pins (13) and (14) of IC402?
No
IC2001 or nearby circuit in trouble
Yes
IC402 or nearby circuit in trouble
Yes
Are there signal input at pins (1), (3) and (13) of IC4017?
No
IC412, IC413 or nearby circuit in trouble
Yes
Are there signal input at pins (28), (37) and (66) of as specified IC4007 ?
No
IC4017 or nearby circuit in trouble
Yes
Are there signals inputs at pins (30) thru (37), (39) thru (42) and (48) thru (59) of IC3507?
No
IC3504, IC3516, IC4007 or nearby circuit in trouble
Yes
Are there signals inputs at pins (18) thru (25) of IC4016?
No
Are there signals input at pins (28) and (65) of IC3507?
No
Go to "Checking PLL-2 circuit"
Yes
Are there signals input at pins (60) and (61) of IC3507?
No
Go to "Checking synchronization-2"
Yes
Are there Bus signals input at pins (157), (158) and (161) of IC3507?
No
IC2001 or nearby circuit in trouble
Yes
Are there signals input at pins (100), (101), (103) thru (106), (108), (109) and (113) thru (120) of IC4008?
No
IC3507, IC3508, IC2001 or nearby circuit in trouble
Yes
Go to "Checking MMC circuit "
Yes
Ⓐ

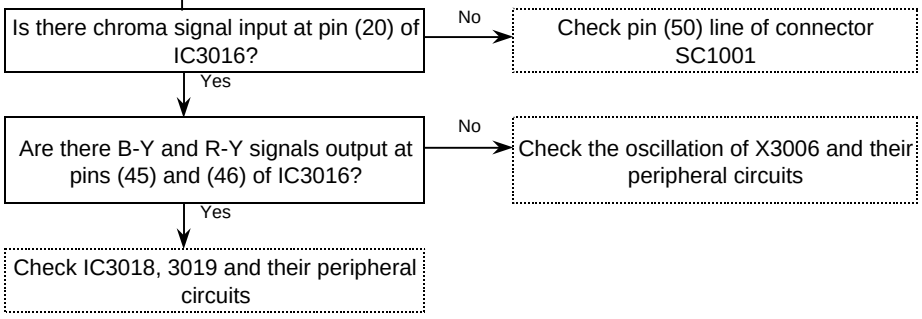
TROUBLE SHOOTING TABLE (Coutinued)


A
Are there CLK signals at pins (26), (27) and (28) of IC4006?
No
IC4013 or nearby circuit in trouble
Yes
IC4006, Q4011, Q4012 or nearby circuit in trouble

Checking the MMC circuit

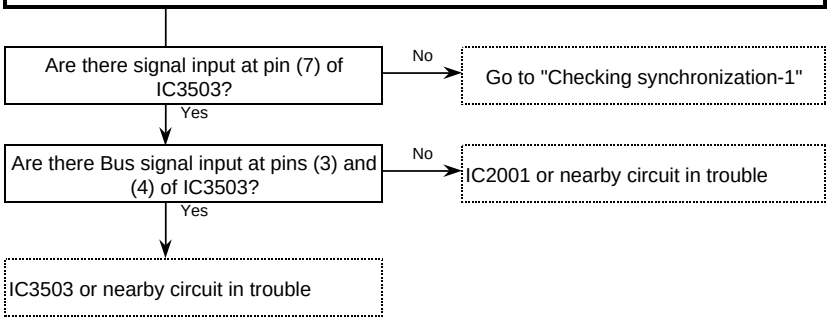

Are there H sync signal output at pin (54) of IC4008?
No
Check X3004(80MHz), IC4013(40MHz) and their peripheral circuits
Yes
Are there V sync signal output at pin (53) of IC4008?
No
Check IC4009, IC4014, IC4015 and their peripheral circuits
Yes
Are there signal intput at pins (153), (156) and (161) of IC4008?
No
Check IC2001 and their peripheral circuits
Yes
Are there signal outputs at pins (36), (38) and (40) of IC4016?
No
Check IC4008 and their peripheral circuits
Yes
Go to "Checking R,G,B signal line of output PWB"

No color or unusual tint with NTSC signal

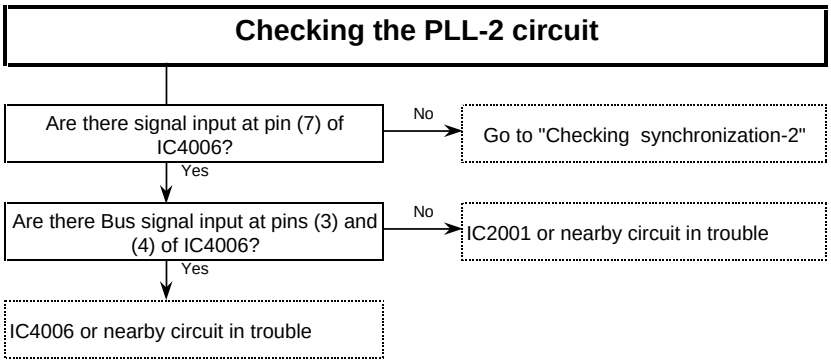

Is there chroma signal input at pin (20) of IC3016?
No
Check pin (50) line of connector SC1001
Yes
Are there B-Y and R-Y signals output at pins (45) and (46) of IC3016?
No
Check the oscillation of X3006 and their peripheral circuits
Yes
Check IC3018, 3019 and their peripheral circuits

TROUBLE SHOOTING TABLE (Coutinued)

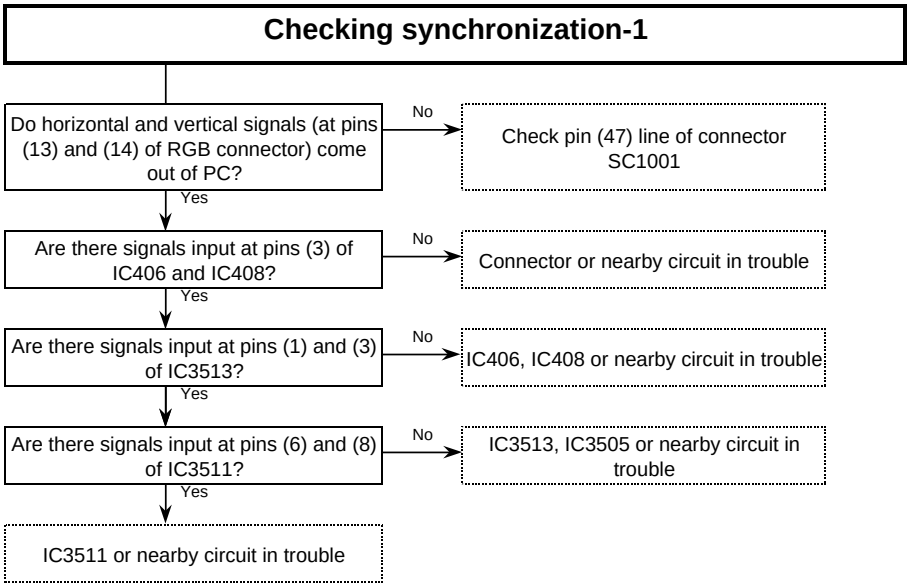
Checking the PLL-1 circuit


Are there signal input at pin (7) of IC3503?
No
Go to "Checking synchronization-1"
Yes
Are there Bus signal input at pins (3) and (4) of IC3503?
No
IC2001 or nearby circuit in trouble
Yes
IC3503 or nearby circuit in trouble

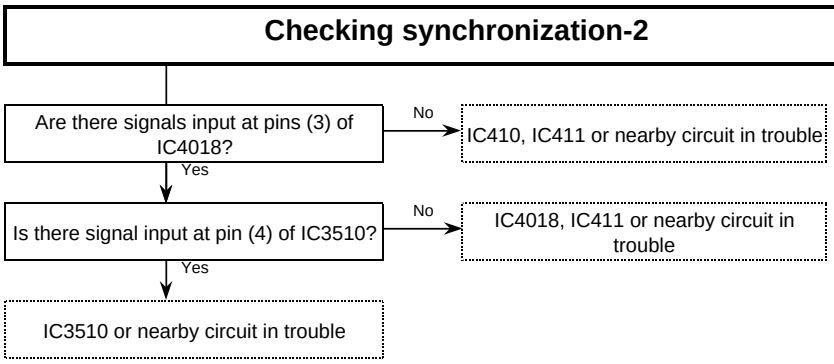
Checking the PLL-2 circuit


Are there signal input at pin (7) of IC4006?
No
Go to "Checking synchronization-2"
Yes
Are there Bus signal input at pins (3) and (4) of IC4006?
No
IC2001 or nearby circuit in trouble
Yes
IC4006 or nearby circuit in trouble

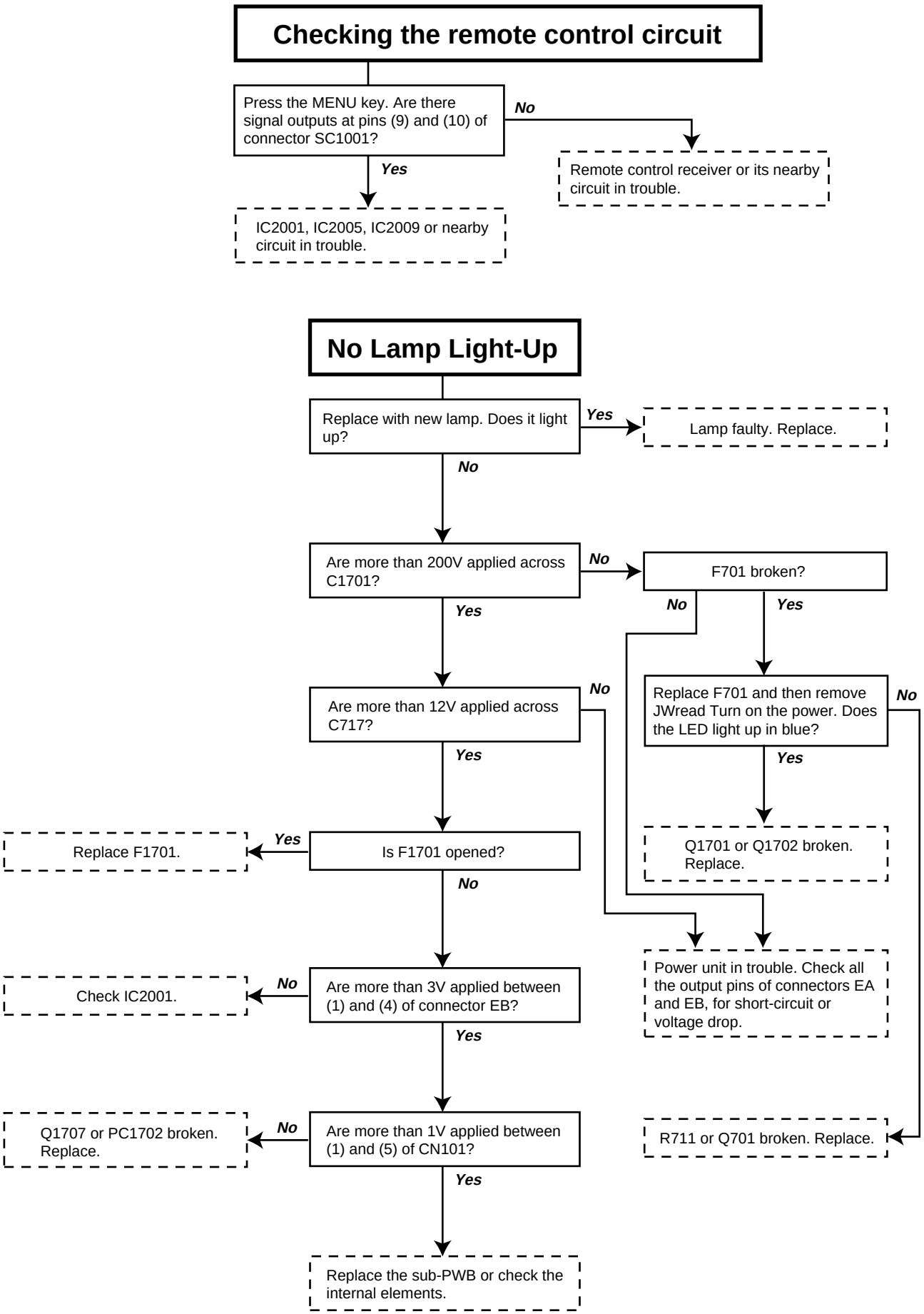
Checking synchronization-1


Do horizontal and vertical signals (at pins (13) and (14) of RGB connector) come out of PC?
No
Check pin (47) line of connector SC1001
Yes
Are there signals input at pins (3) of IC406 and IC408?
No
Connector or nearby circuit in trouble
Yes
Are there signals input at pins (1) and (3) of IC3513?
No
IC406, IC408 or nearby circuit in trouble
Yes
Are there signals input at pins (6) and (8) of IC3511?
No
IC3513, IC3505 or nearby circuit in trouble
Yes
IC3511 or nearby circuit in trouble

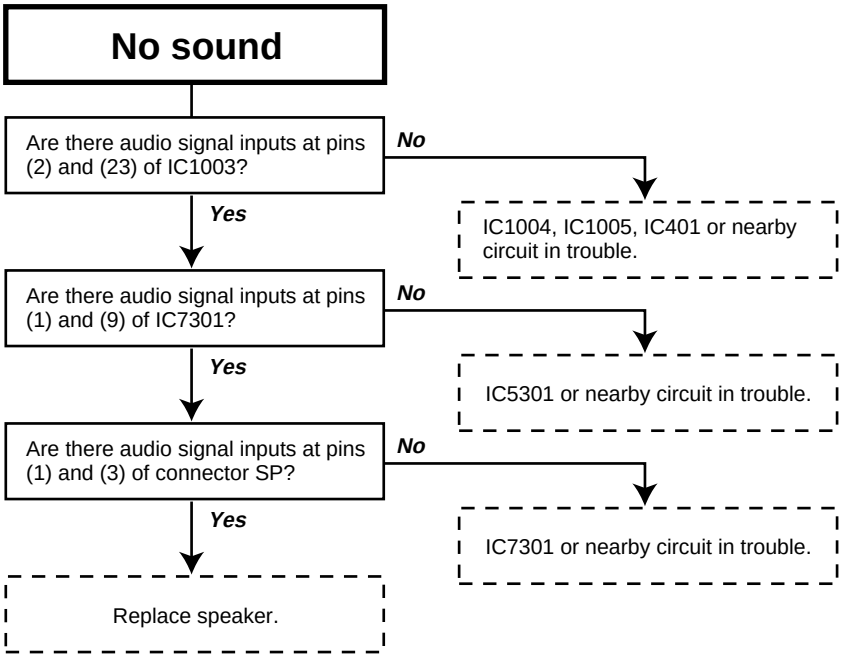
Checking synchronization-2

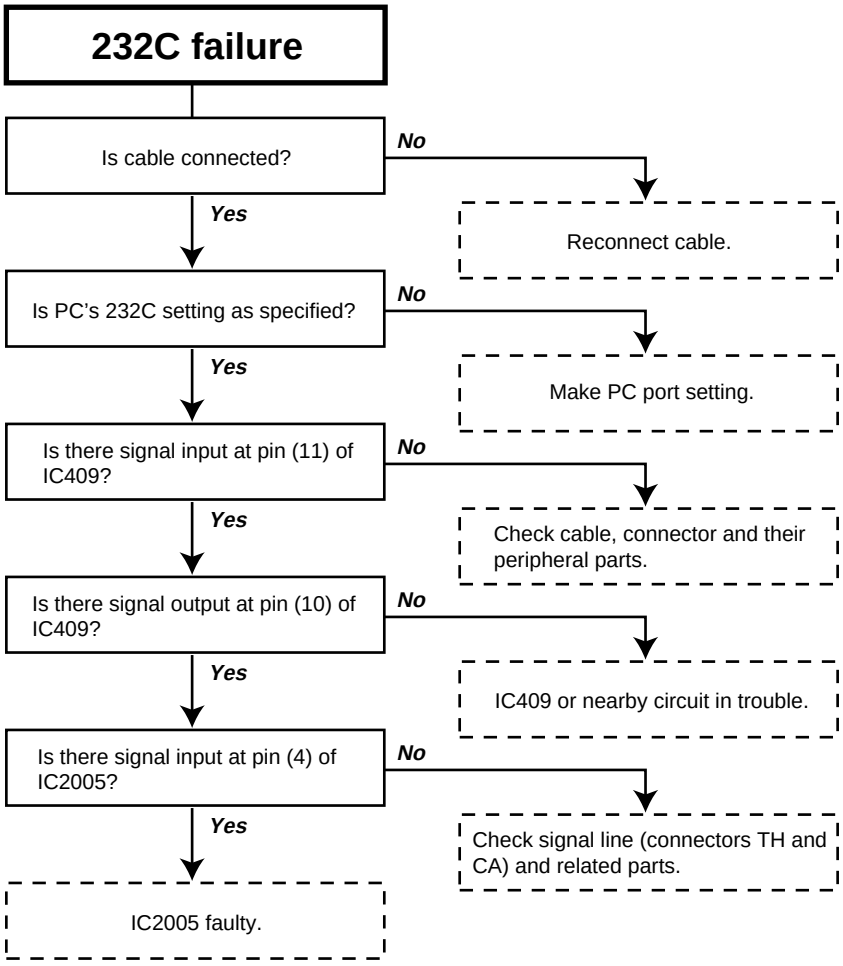

Are there signals input at pins (3) of IC4018?
No
IC410, IC411 or nearby circuit in trouble
Yes
Is there signal input at pin (4) of IC3510?
No
IC4018, IC411 or nearby circuit in trouble
Yes
IC3510 or nearby circuit in trouble

TROUBLE SHOOTING TABLE (Coutinued)


Checking the remote control circuit
Press the MENU key. Are there signal outputs at pins (9) and (10) of connector SC1001?
No
Remote control receiver or its nearby circuit in trouble.
Yes
IC2001, IC2005, IC2009 or nearby circuit in trouble.
No Lamp Light-Up
Replace with new lamp. Does it light up?
Yes
Lamp faulty. Replace.
No
Are more than 200V applied across C1701?
No
F701 broken?
No
Yes
Yes
Are more than 12V applied across C717?
No
Replace F701 and then remove JWread Turn on the power. Does the LED light up in blue?
No
Yes
Yes
Q1701 or Q1702 broken. Replace.
Replace F1701.
Yes
Is F1701 opened?
No
Power unit in trouble. Check all the output pins of connectors EA and EB, for short-circuit or voltage drop.
Check IC2001.
No
Are more than 3V applied between (1) and (4) of connector EB?
Yes
Q1707 or PC1702 broken. Replace.
No
Are more than 1V applied between (1) and (5) of CN101?
R711 or Q701 broken. Replace.
Yes
Replace the sub-PWB or check the internal elements.

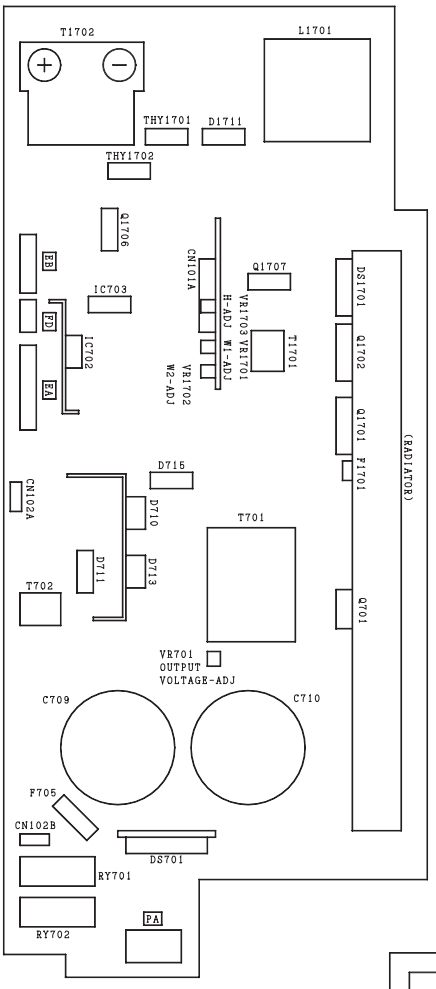
TROUBLE SHOOTING TABLE (Coutinued)


No sound
Are there audio signal inputs at pins (2) and (23) of IC1003?
No
IC1004, IC1005, IC401 or nearby circuit in trouble.
Yes
Are there audio signal inputs at pins (1) and (9) of IC7301?
No
IC5301 or nearby circuit in trouble.
Yes
Are there audio signal inputs at pins (1) and (3) of connector SP?
No
IC7301 or nearby circuit in trouble.
Yes
Replace speaker.

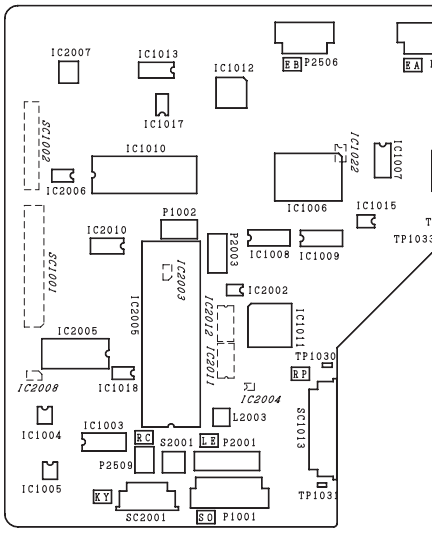


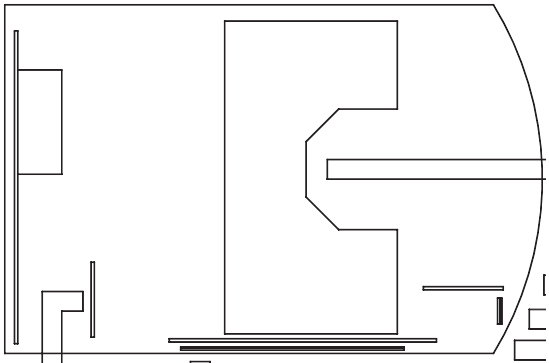
CHASSIS LAYOUT

POWER/BALLAST UNIT
CDENC0273CE01

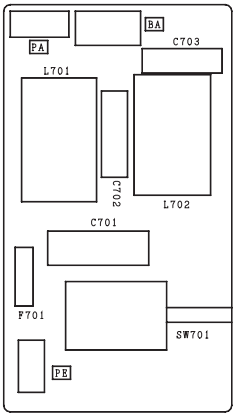


OUTPUT UN
DUNTK9756DE

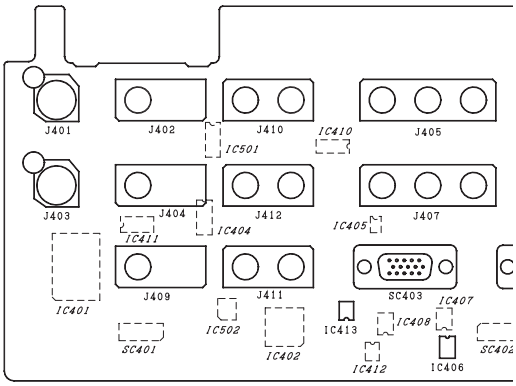




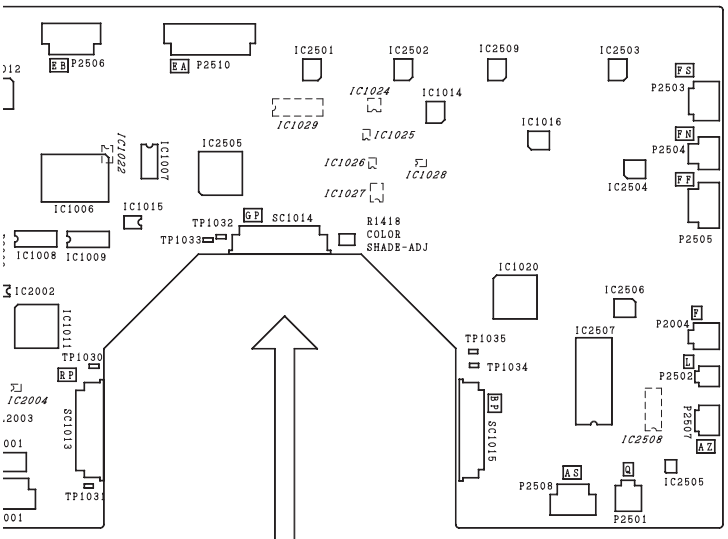
AC-SW UNIT
RUNTK0630CEZZ



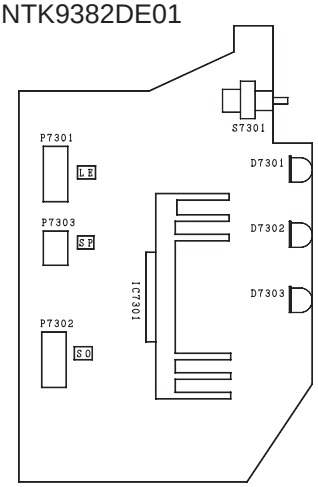
INPUT UNIT
DUNTK9757DE01



OUTPUT UNIT
DUNTK9756DE01

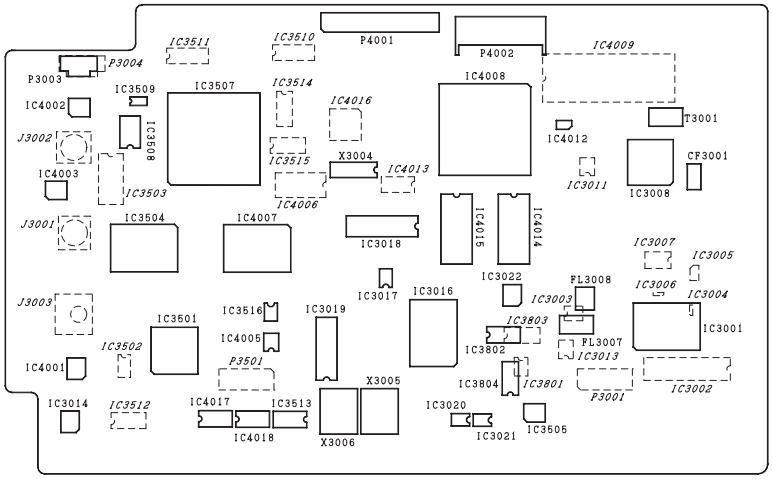


LED UNIT
DUNTK9382DE01

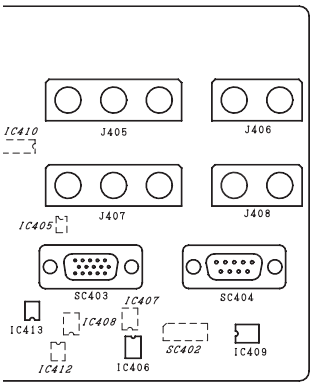


INFRARED
R/C RECEIVER UNIT
DUNTK9755DE01

SIGNAL UNIT
DUNTK9754DE01

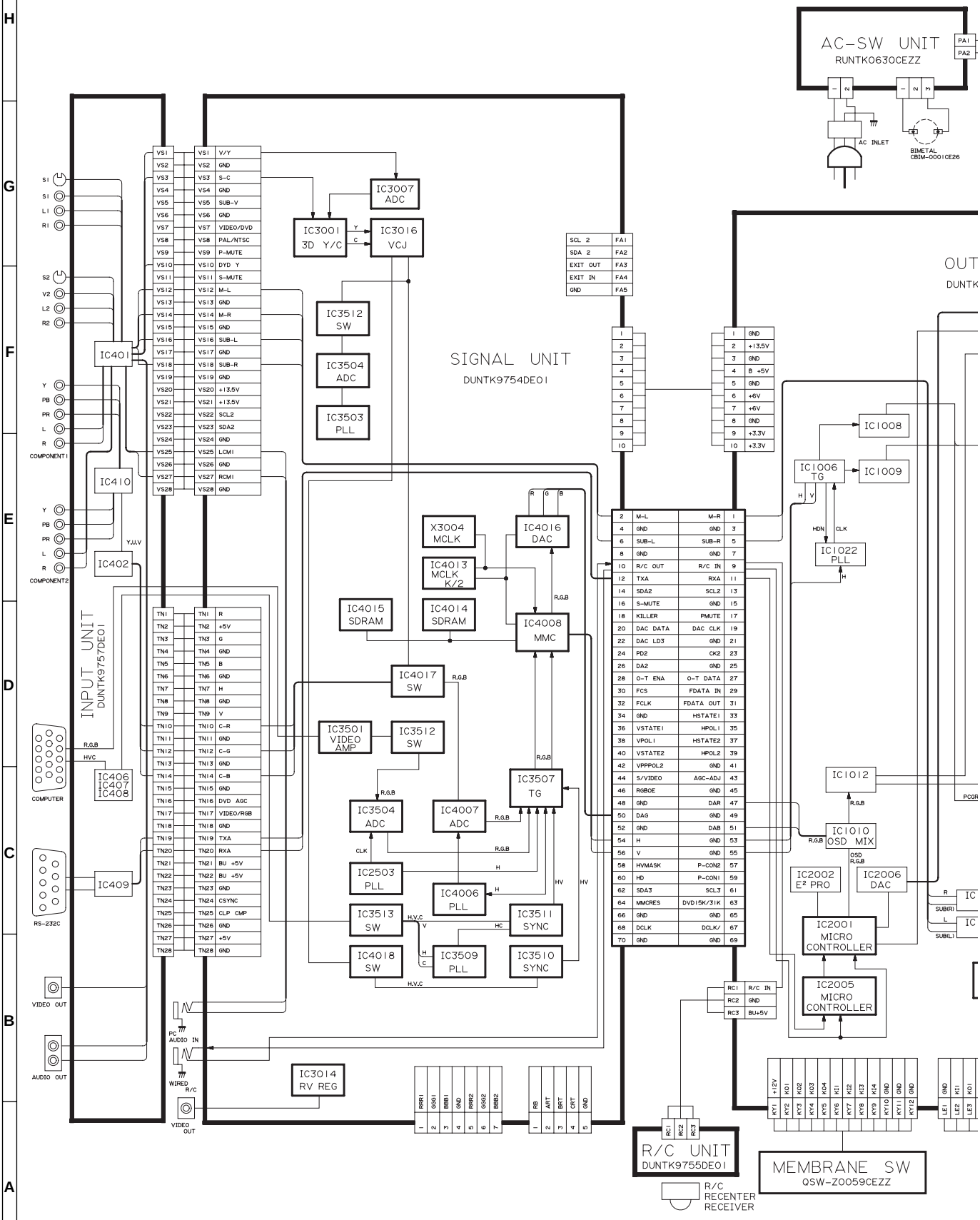


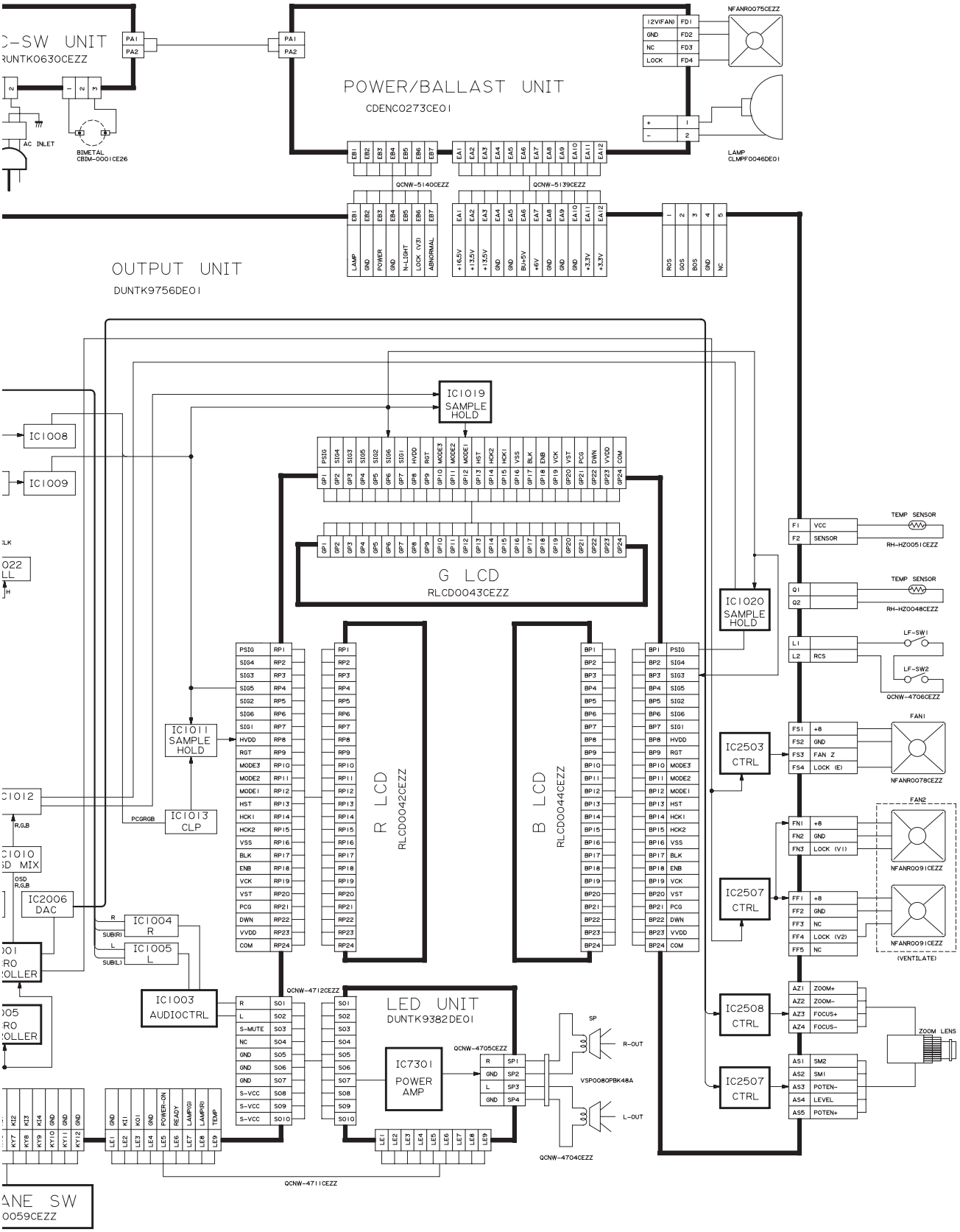
JT UNIT
TK9757DE01



7	8	9	10	11	12	13

OVERALL WIRING AND BLOCK DIAGRAM





7	8	9	10	11	12	13

DESCRIPTION OF SCHEMATIC DIAGRAM

VOLTAGE MEASUREMENT CONDITION:

1. Voltages at test points are measured at the supply voltage of AC 120V. Signals are fed by a color bar signal generator for servicing purpose and the above voltages are measured with a 20k ohm/V tester.

WAVEFORM MEASUREMENT CONDITION:

1. Waveforms at test points are observed at the supply voltage of AC 120V. Signals are fed by a color bar signal generator for servicing purpose.

INDICATION OF RESISTOR & CAPACITOR:

RESISTOR

1. The unit of resistance "Ω" is omitted. (K=kΩ=1000 Ω, M=MΩ).
2. All resistors are ± 5%, unless otherwise noted. (J= ± 5%, F= ± 1%, D= ± 0.5%)
3. All resistors are 1/10W, unless otherwise noted.
4. All resistors are Carbon type, unless otherwise noted.

Ⓒ: Solid Ⓦ: Cement
Ⓢ: Oxide Film Ⓣ: Special
Ⓝ: Metal Coating

CAPACITOR

1. All capacitors are μF, unless otherwise noted. (P=pF=μμF).
2. All capacitors are 50V, unless otherwise noted.
3. All capacitors are Ceramic type, unless otherwise noted.

(ML): Mylar (TA): Tantalum
(PF): Polypro Film (ST): Styrol

CAUTION:
This circuit diagram is original one, therefore there may be a slight difference from yours.

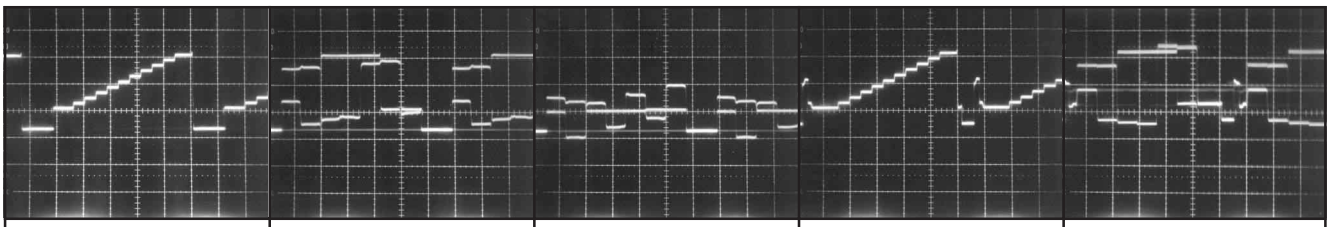
SAFETY NOTES:

1. DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACEING PARTS.
2. SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.

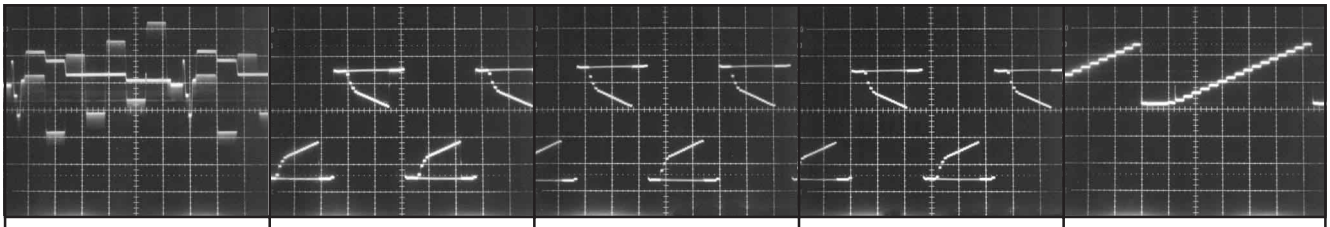
IMPORTANT SAFETY NOTICE:

PARTS MARKED WITH "⚠ ( ) ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

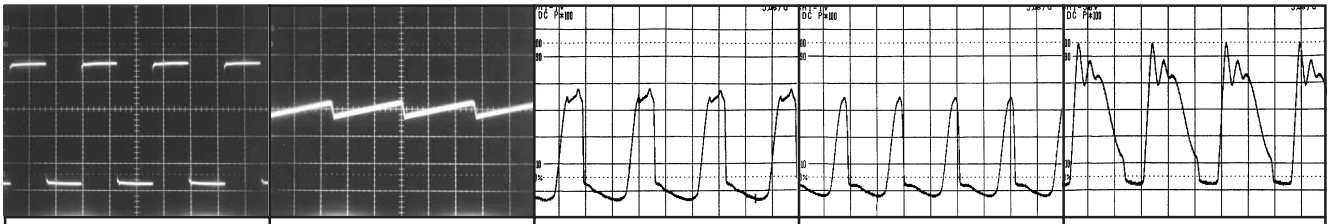
WAVEFORMS



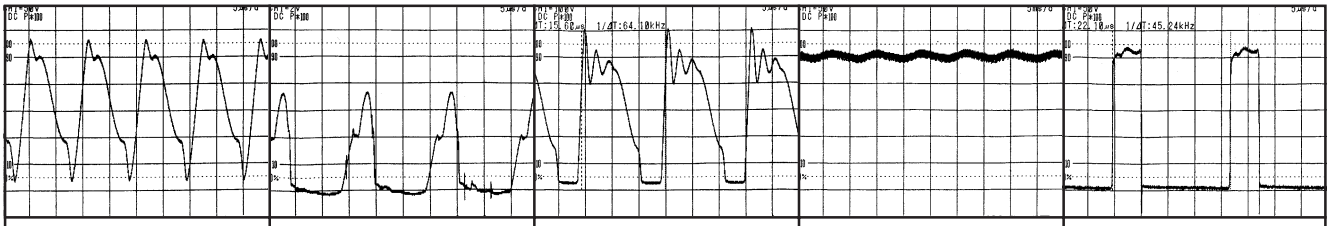
① P3004 pin 2 (GGG1) H : 10µs/div V : 0.5v/div	② P3004 pin 1 (RRR1) H : 10µs/div V : 0.5v/div	③ P3004 pin 3 (BBB1) H : 10µs/div V : 0.5v/div	④ P3004 pin 6 (GGG2) H : 10µs/div V : 0.5v/div	⑤ P3004 pin 5 (RRR2) H : 10µs/div V : 0.5v/div



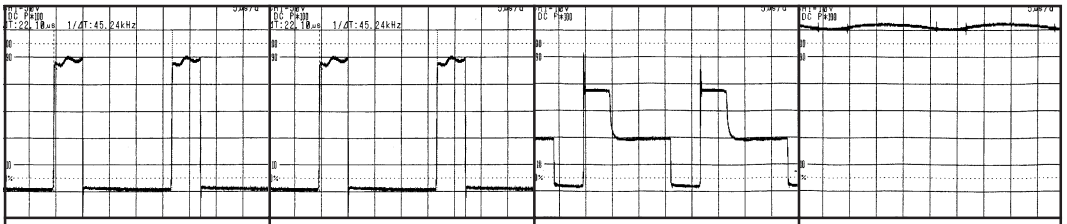
⑥ P3004 pin 7 (BBB2) H : 10µs/div V : 0.5v/div	⑦ TP1030 (RSIG1) H : 10µs/div V : 2v/div	⑧ TP1032 (GSIG1) H : 10µs/div V : 2v/div	⑨ TP1035 (RSIG1) H : 10µs/div V : 2v/div	⑩ P3004 pin 2 (GGG1) H : 10µs/div V : 0.5v/div



⑪ TP1031 (PSIG) H : 20µs/div V : 2v/div	⑫ TP1050 (IC1019 pin48) H : 20µs/div V : 0.2v/div	⑬-1 Q705 (G) H : 5µs/div V : 1v/div	⑬-2 Q705 (G) H : 5µs/div V : 1v/div	⑭-1 Q705 (D) H : 5µs/div V : 50v/div

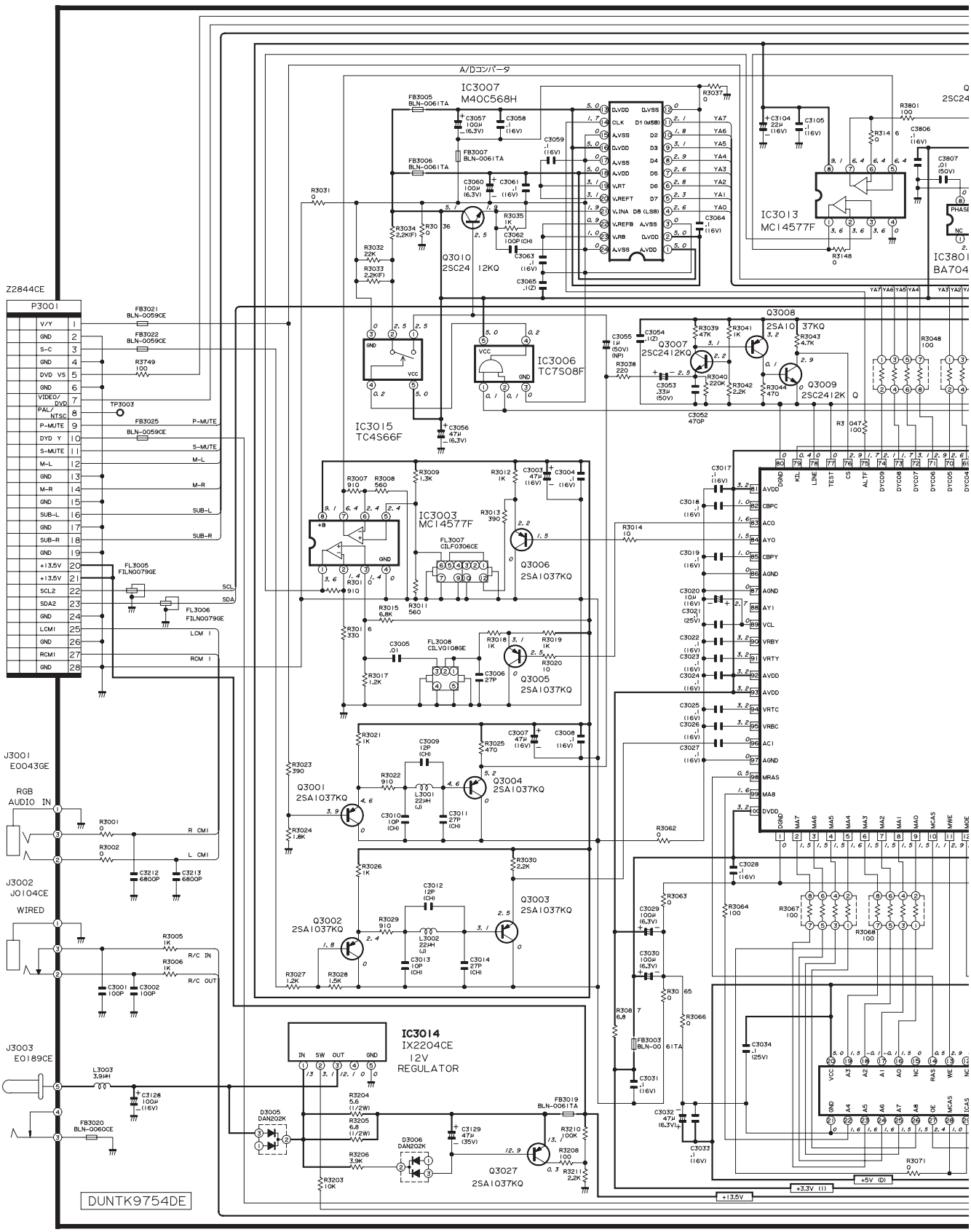


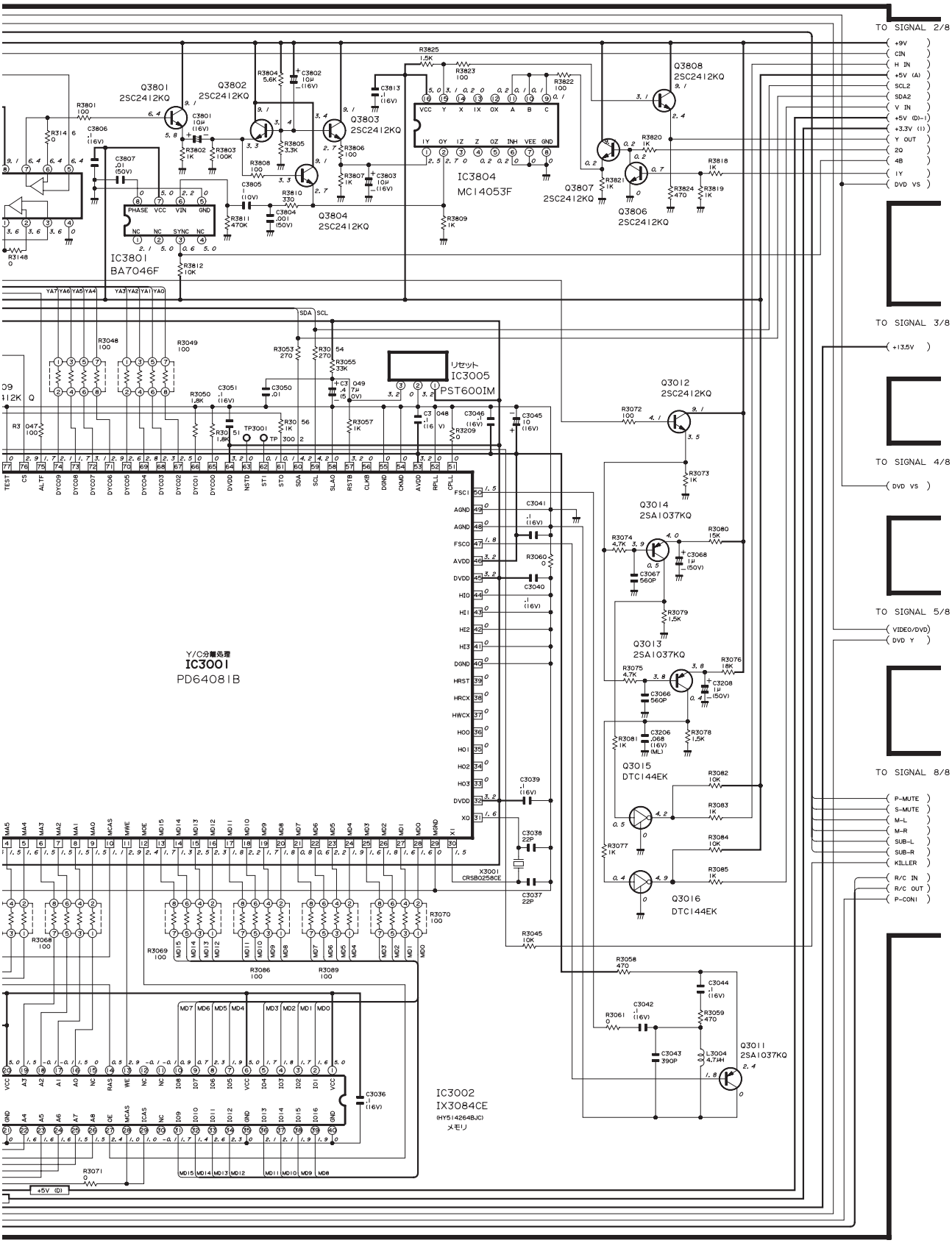
⑭-2 Q705 (D) H : 5µs/div V : 50v/div	⑮ Q701 (G) H : 5µs/div V : 2v/div	⑯ Q701 (D) H : 5µs/div V : 100v/div	⑰ Q1701 (D) H : 5ms/div V : 50v/div	⑱ Q1701 (G) H : 5µs/div V : 50v/div



⑲ Q1701 (S) H : 5µs/div V : 50v/div	⑳ Q1708 (B) H : 5µs/div V : 0.5v/div	㉑ Q1708 (C) H : 5µs/div V : 10v/div	㉒ Q1703 (C) H : 5µs/div V : 10v/div

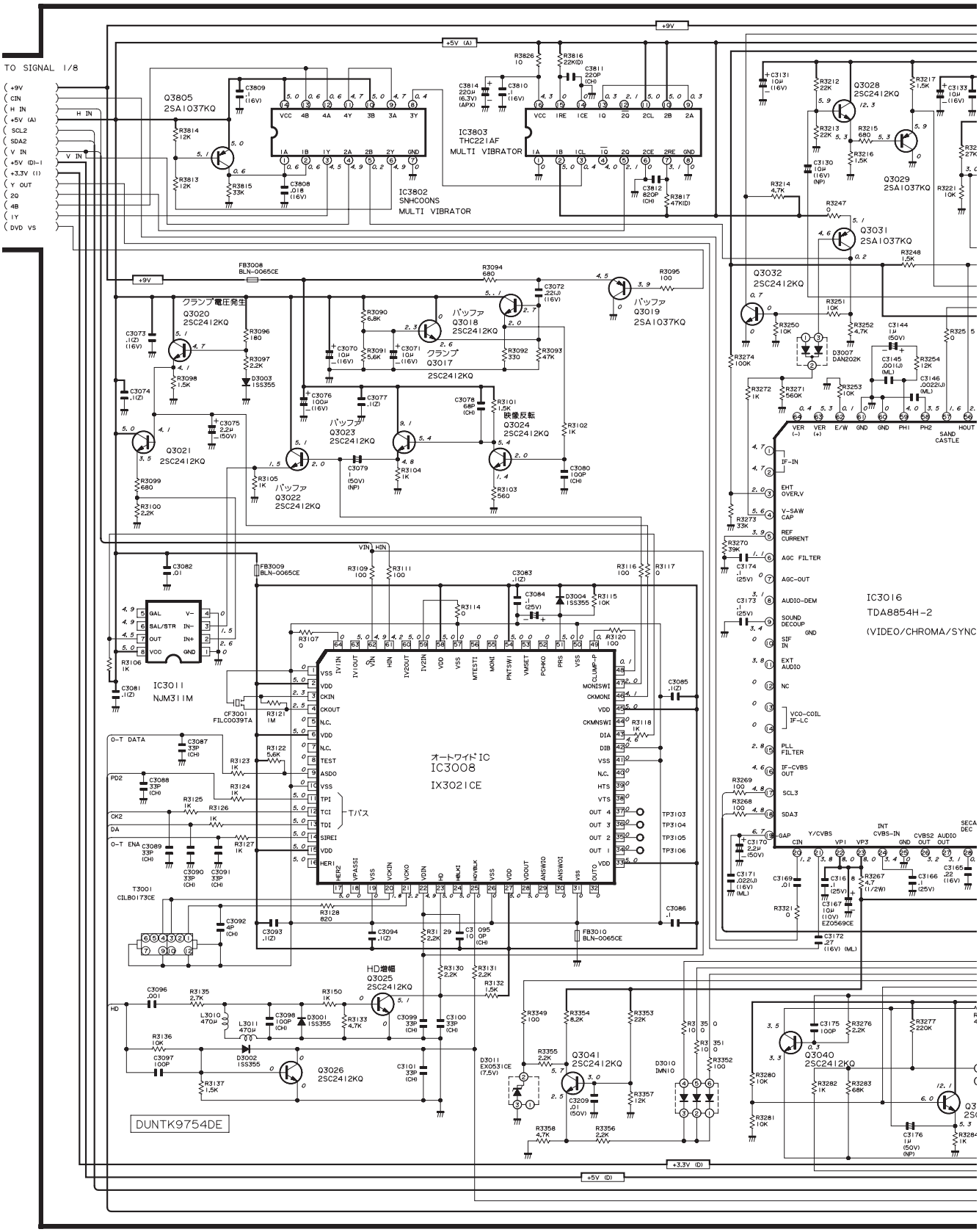
■ SIGNAL UNIT-1/8

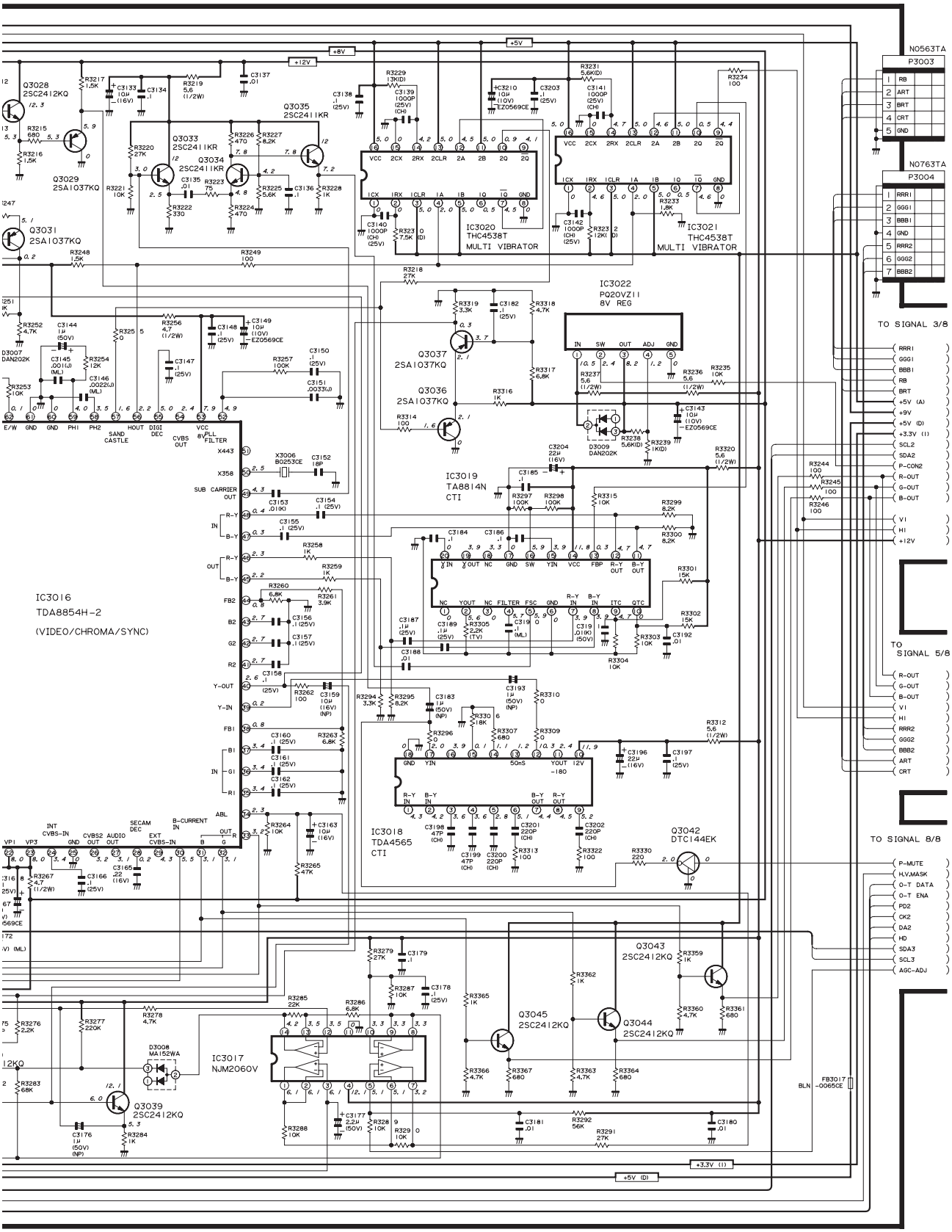




7	8	9	10	11	12	13

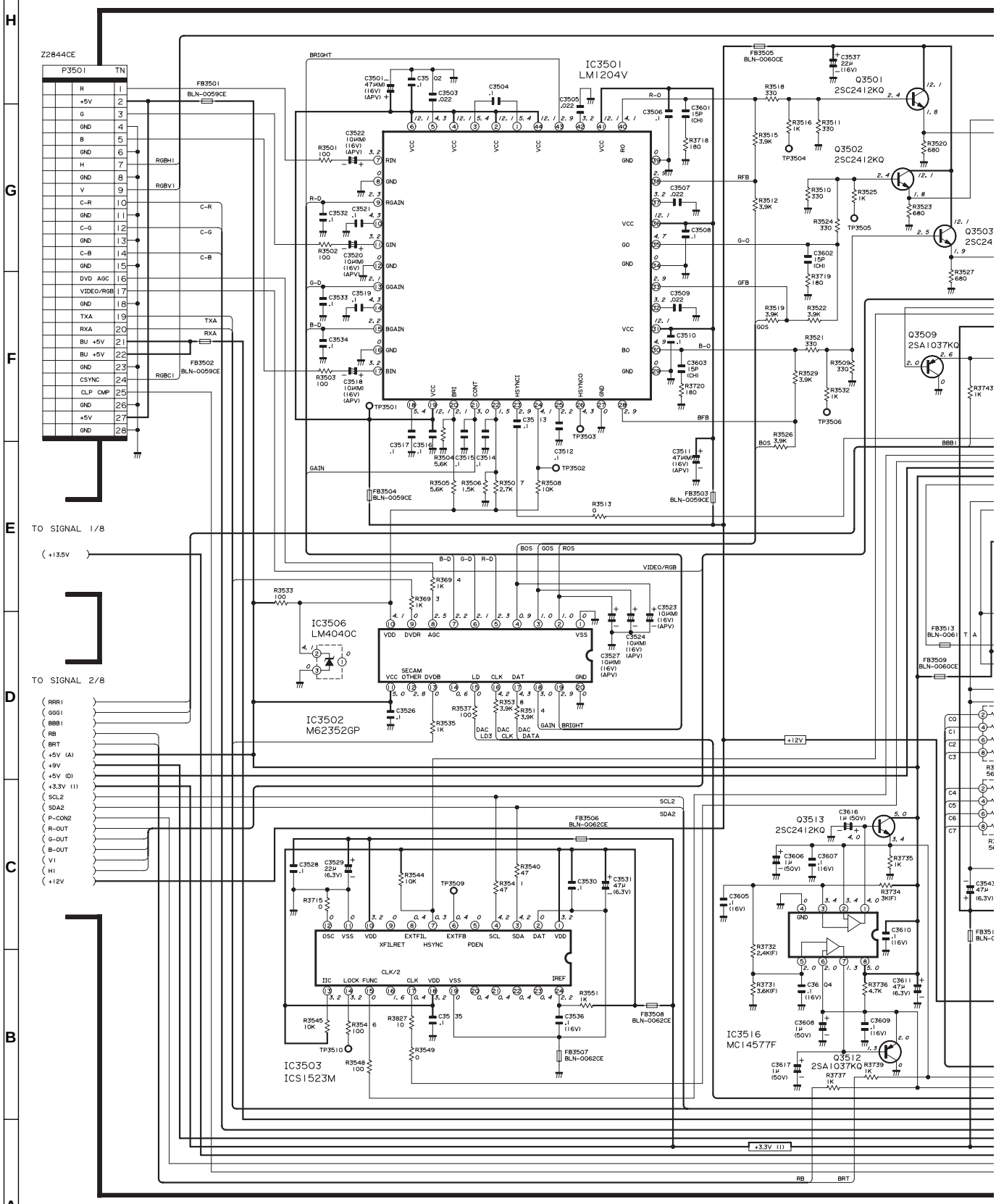
■ SIGNAL UNIT-2/8

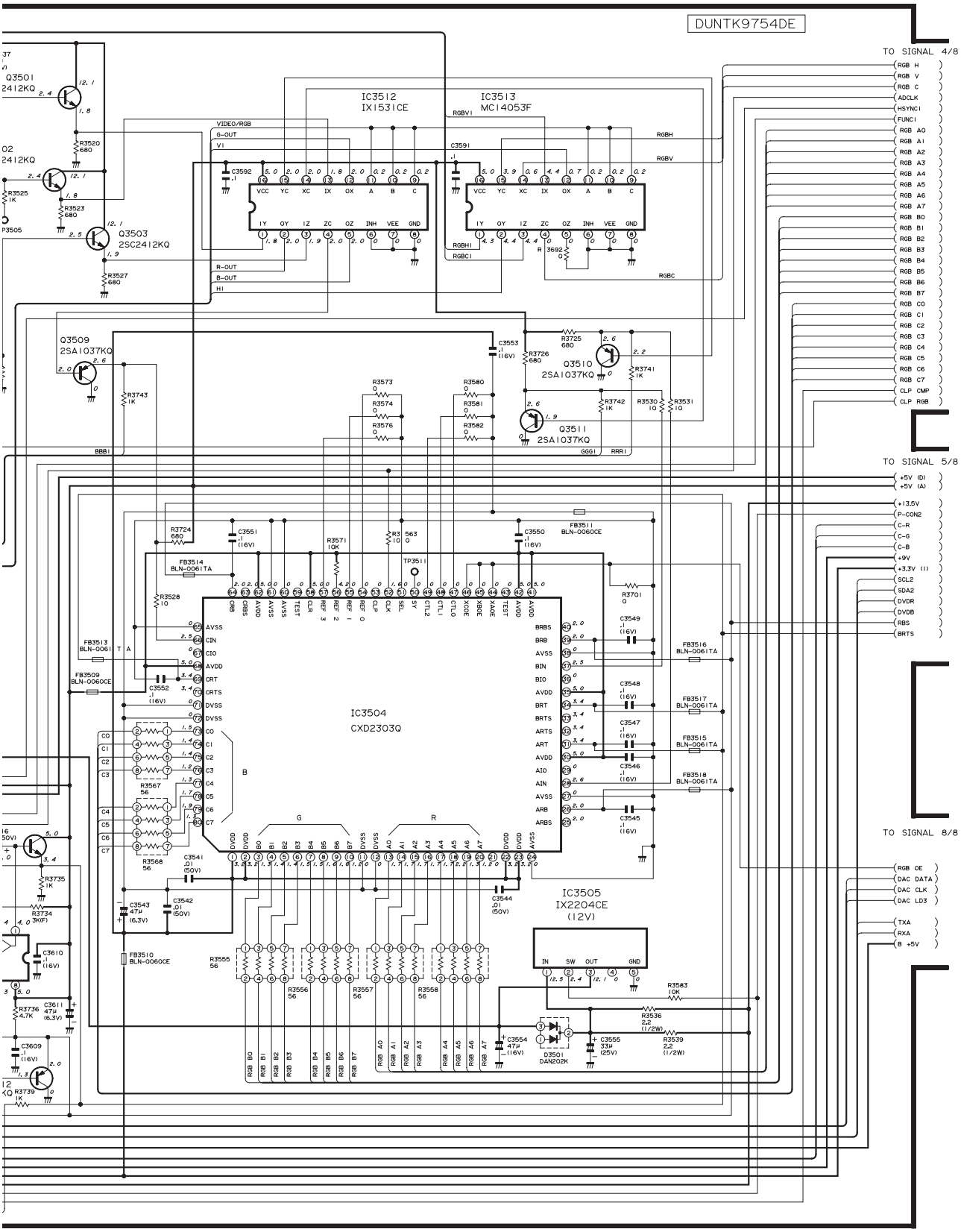




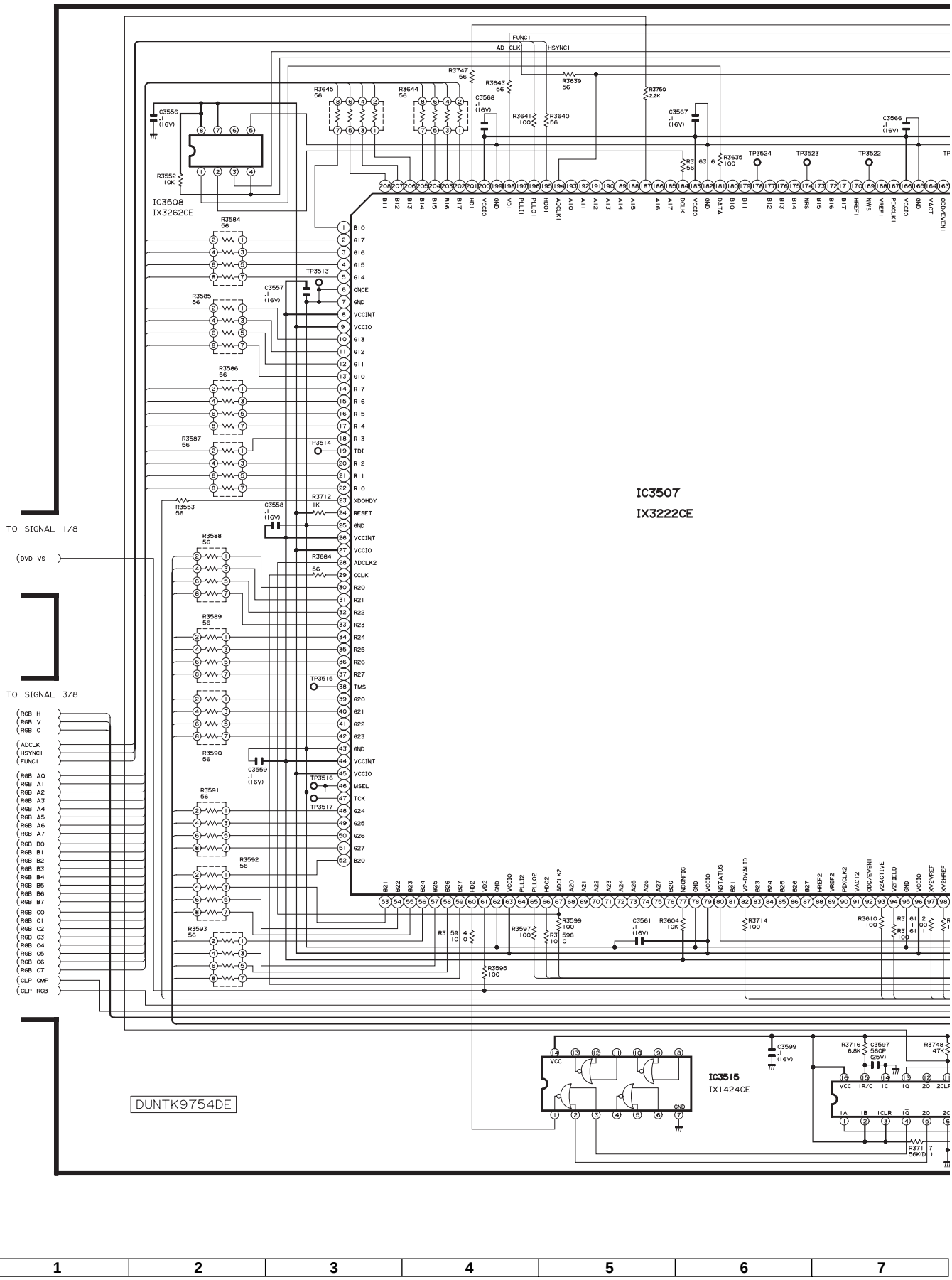
7	8	9	10	11	12	13

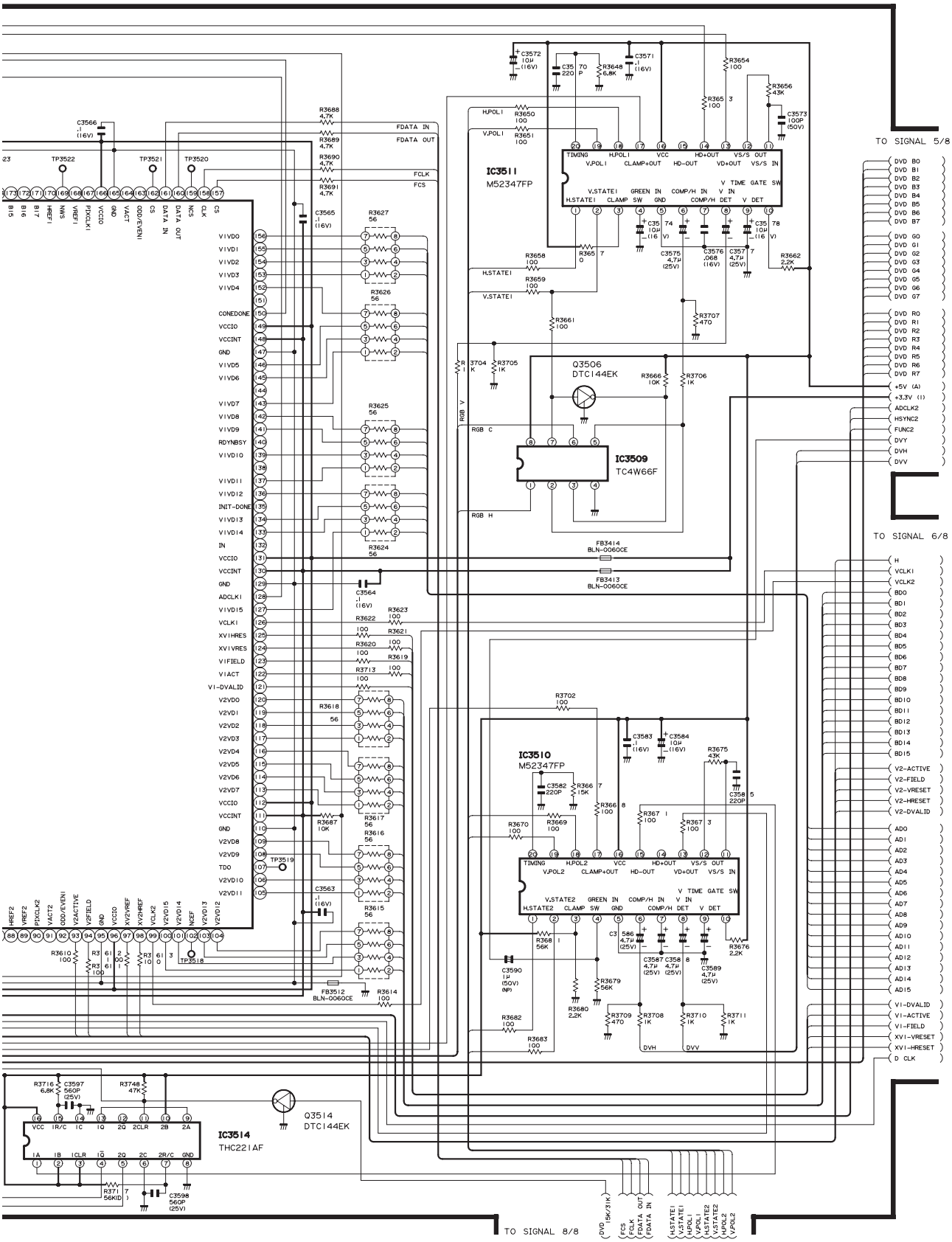
■ SIGNAL UNIT-3/8




DUNTK9754DE
TO SIGNAL 4/8
TO SIGNAL 5/8
TO SIGNAL 8/8
IC3504
CXD2303Q
IC3505
IX2204CE
(12V)
IC3512
IX1531CE
IC3513
MC14053F
Q3501
2412KQ
Q3503
2SC2412KQ
Q3509
2SA1037KQ
Q3510
2SA1037KQ
Q3511
2SA1037KQ
RGB H
RGB V
RGB C
ADCLK
HSYNC1
FUNC1
CLP CMP
CLP RGB
+5V (D)
+5V (A)
+13.5V
P-CON2
C-R
C-G
C-B
+9V
+3.3V (1)
SCL2
SDA2
DVDR
DVDB
RBS
BRTS
RGB OE
DAC DATA
DAC CLK
DAC LD3
TXA
RXA
B +5V

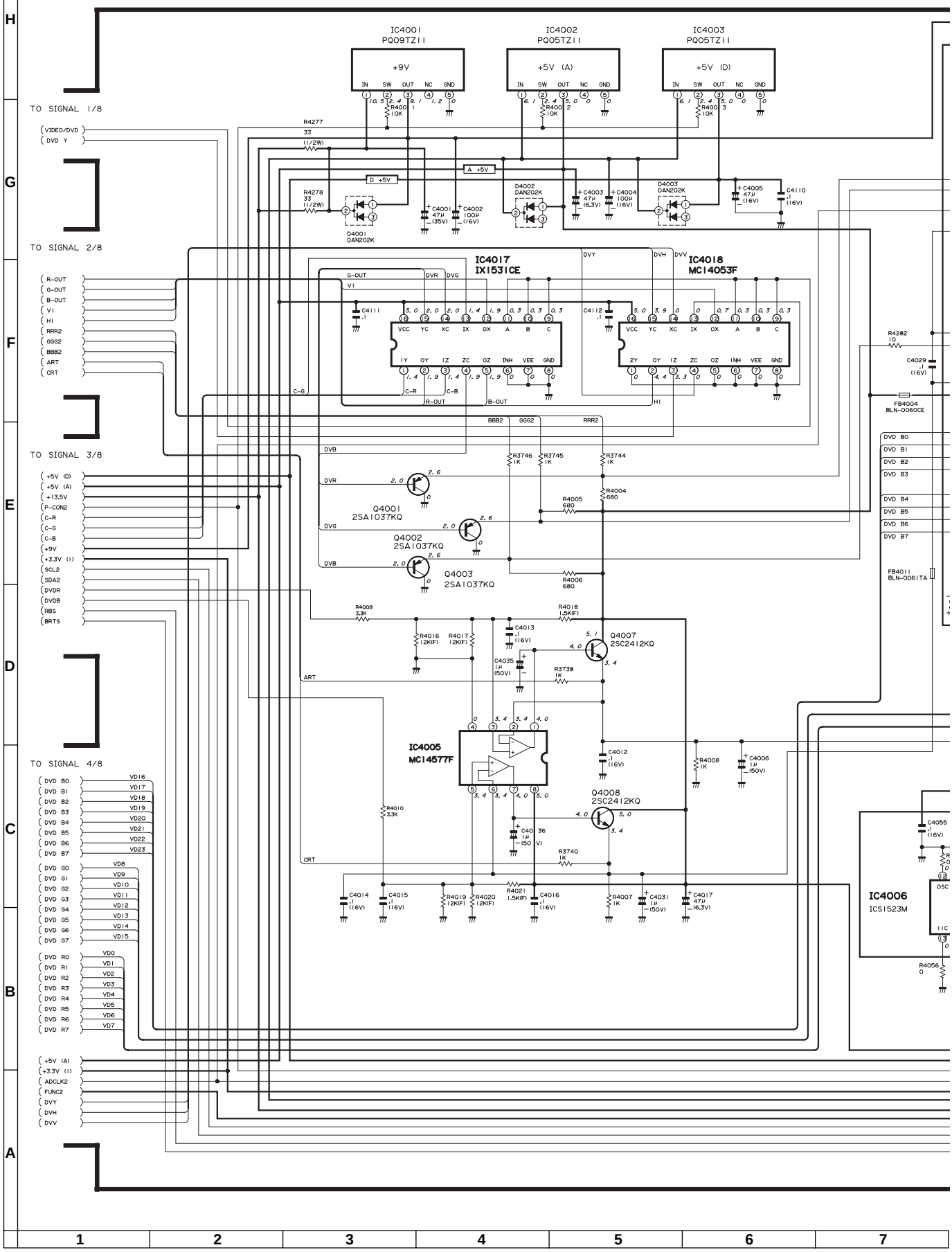
■ SIGNAL UNIT-4/8

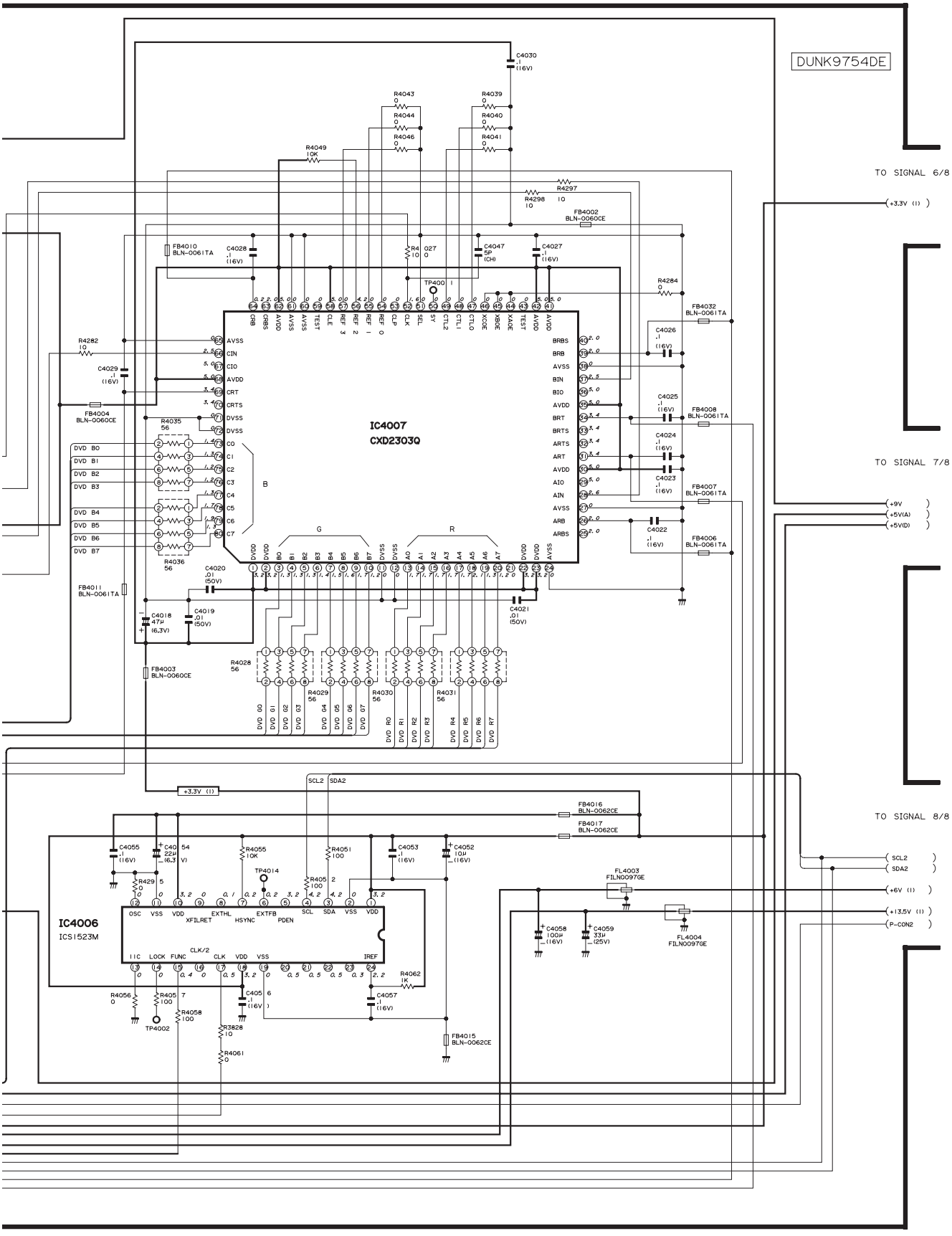




7	8	9	10	11	12	13

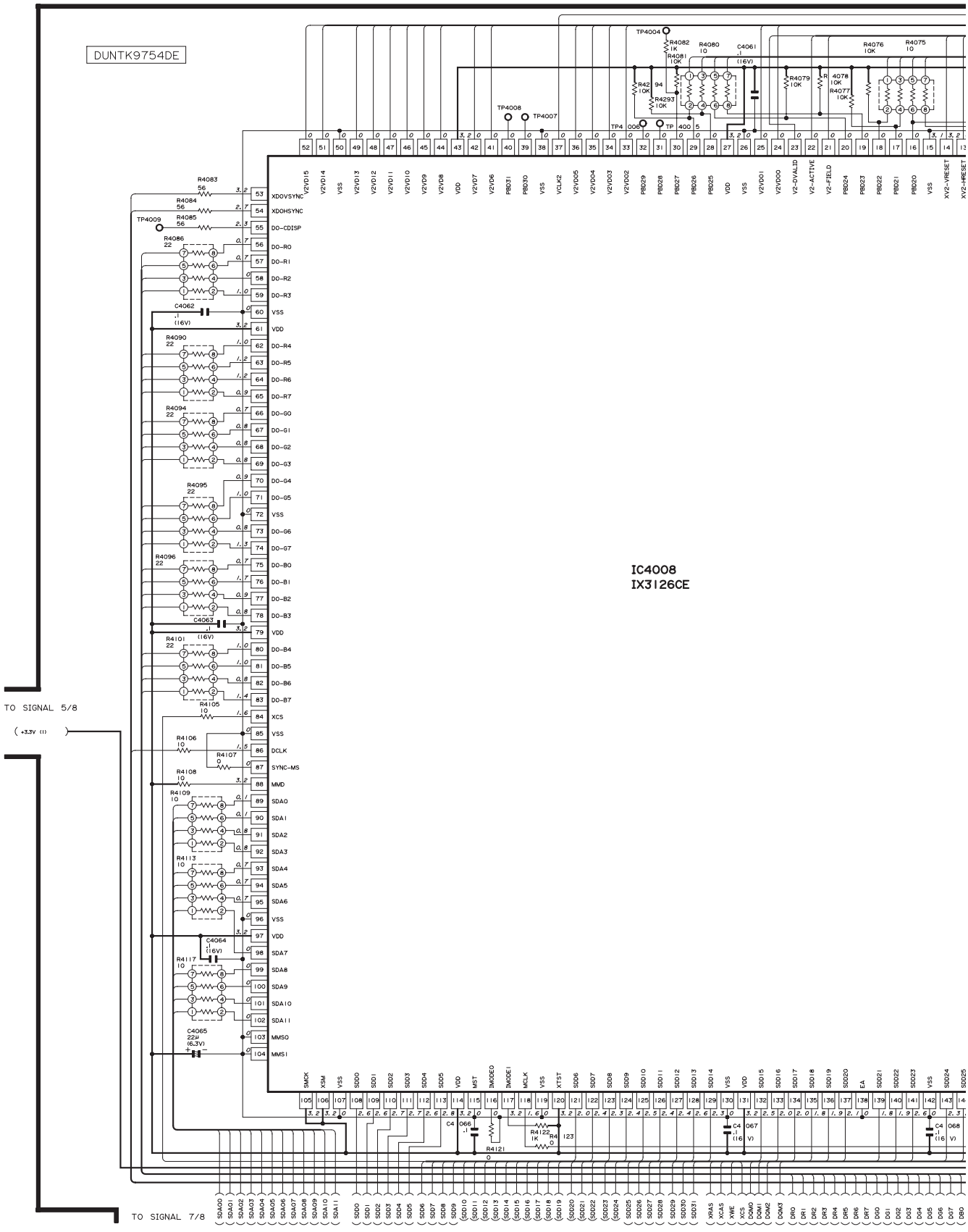
■ SIGNAL UNIT-5/8

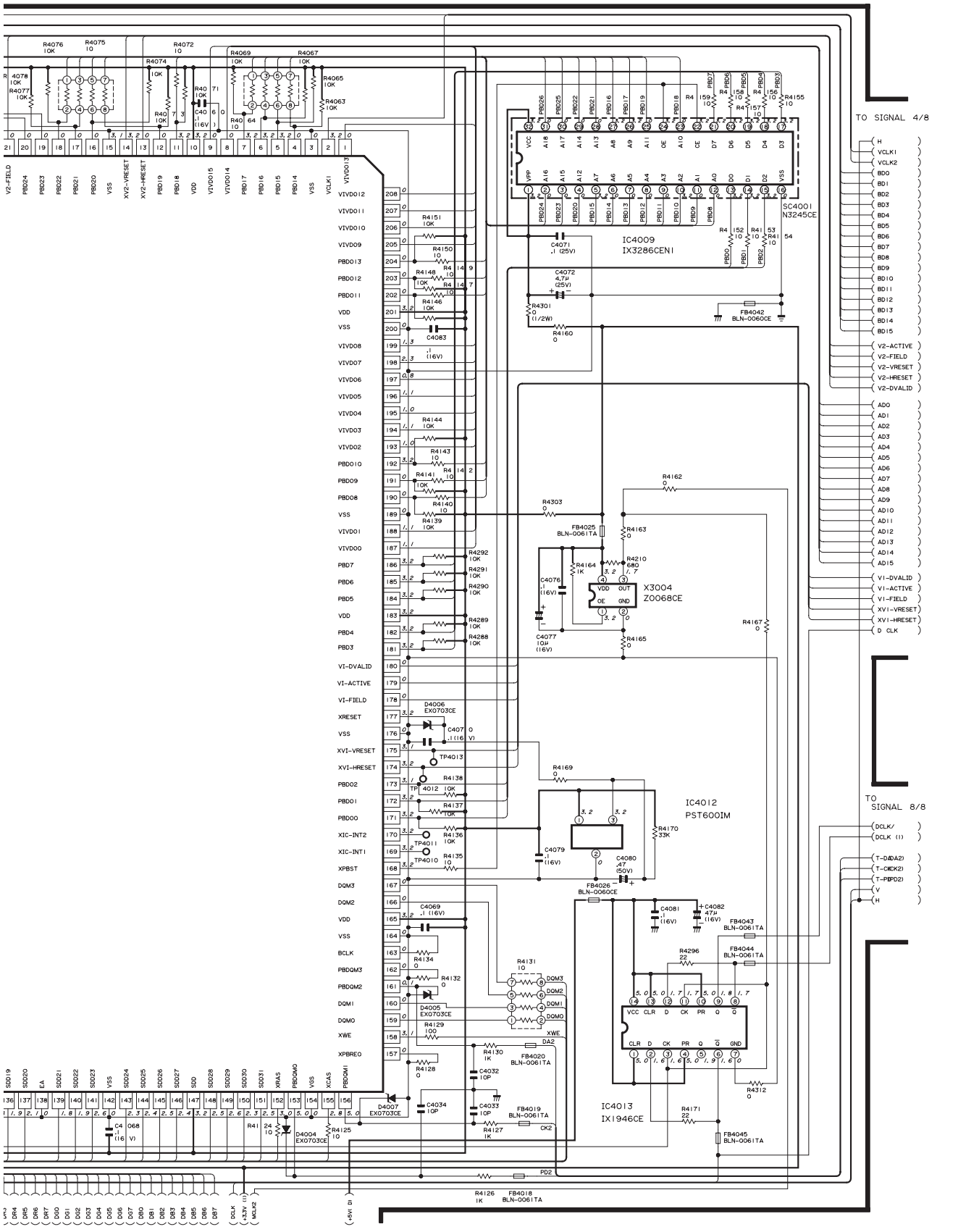




7	8	9	10	11	12	13

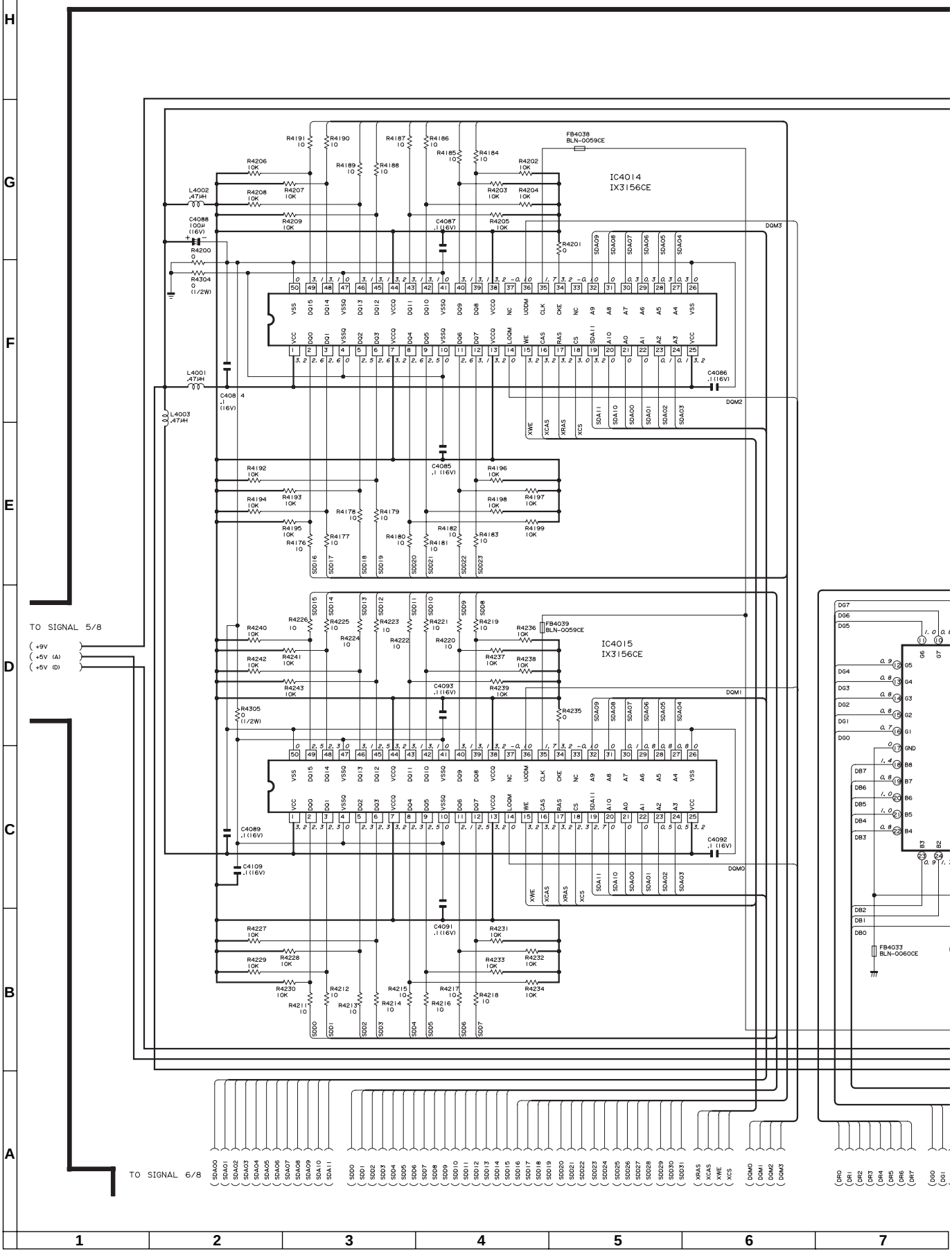
■ SIGNAL UNIT-6/8

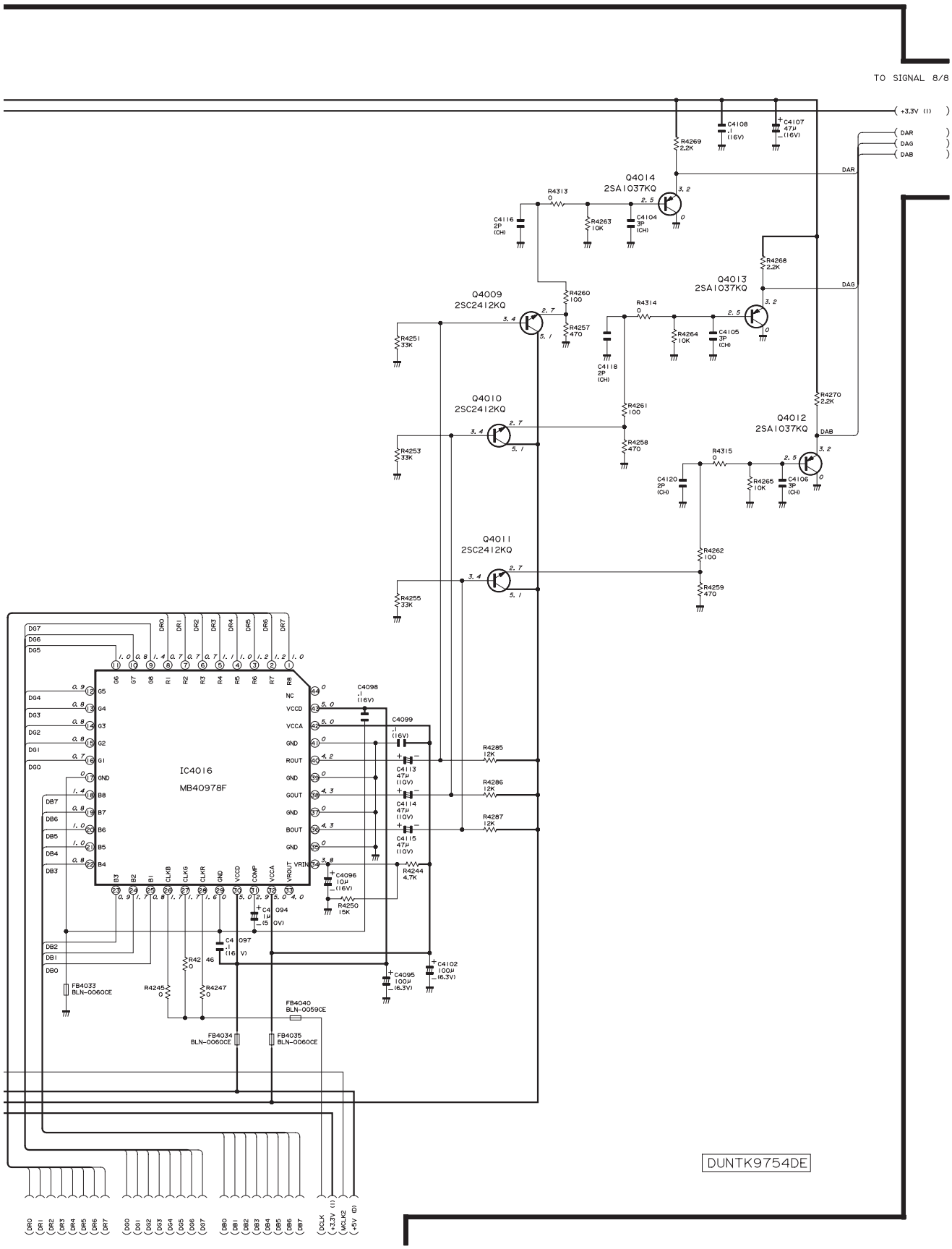




7	8	9	10	11	12	13

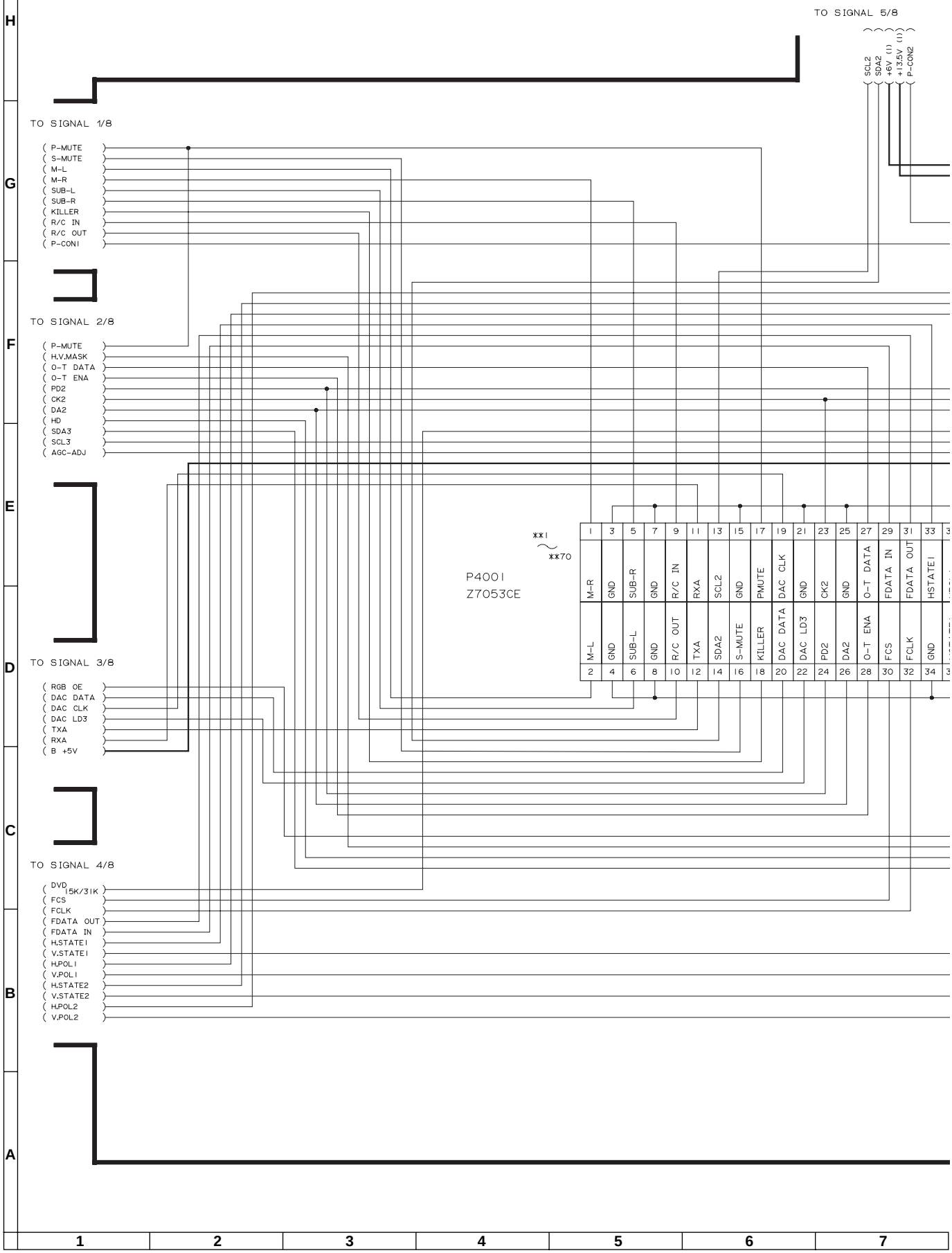
■ SIGNAL UNIT-7/8

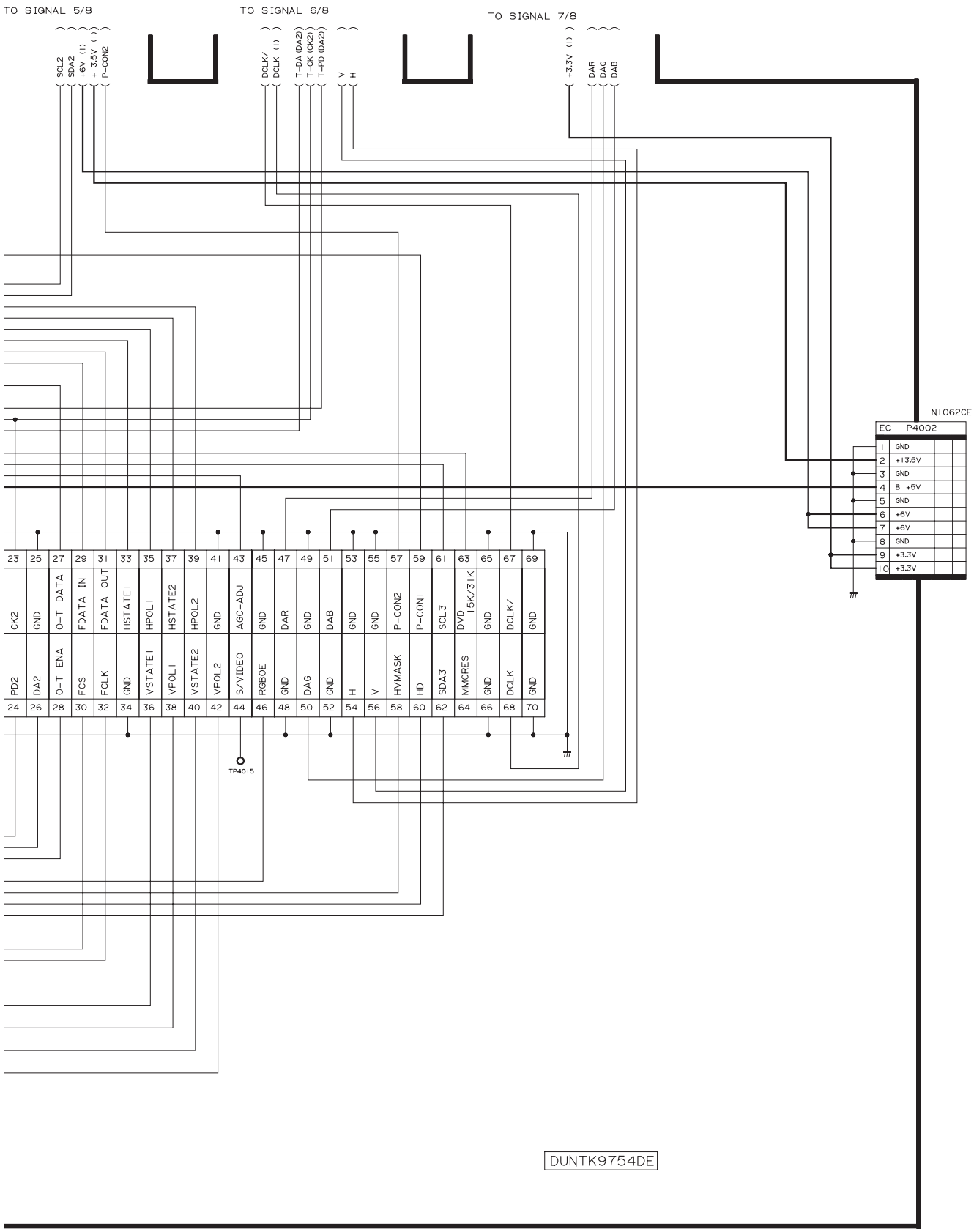




7	8	9	10	11	12	13

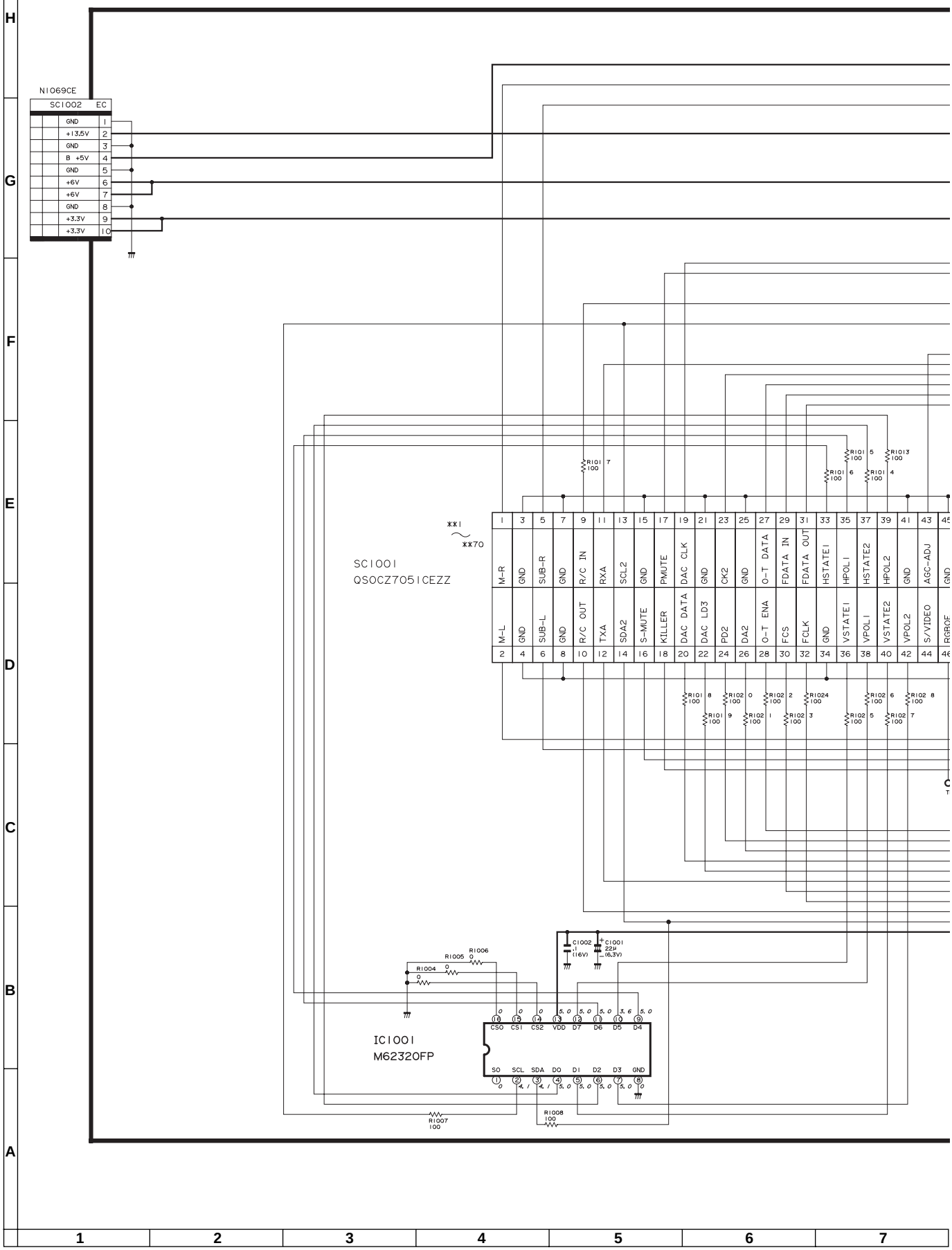
■ SIGNAL UNIT-8/8

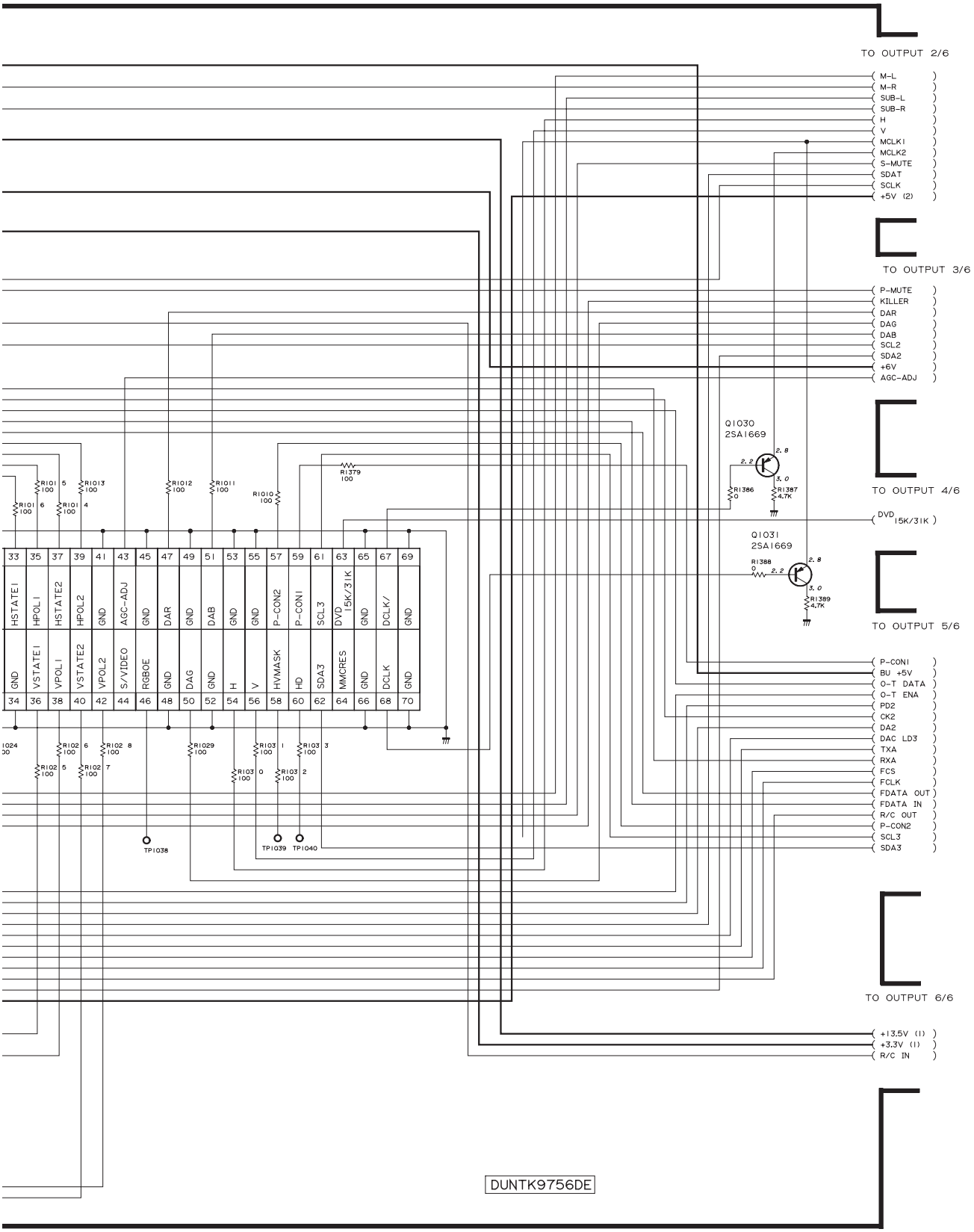




7	8	9	10	11	12	13

■ OUTPUT UNIT-1/6





7	8	9	10	11	12	13

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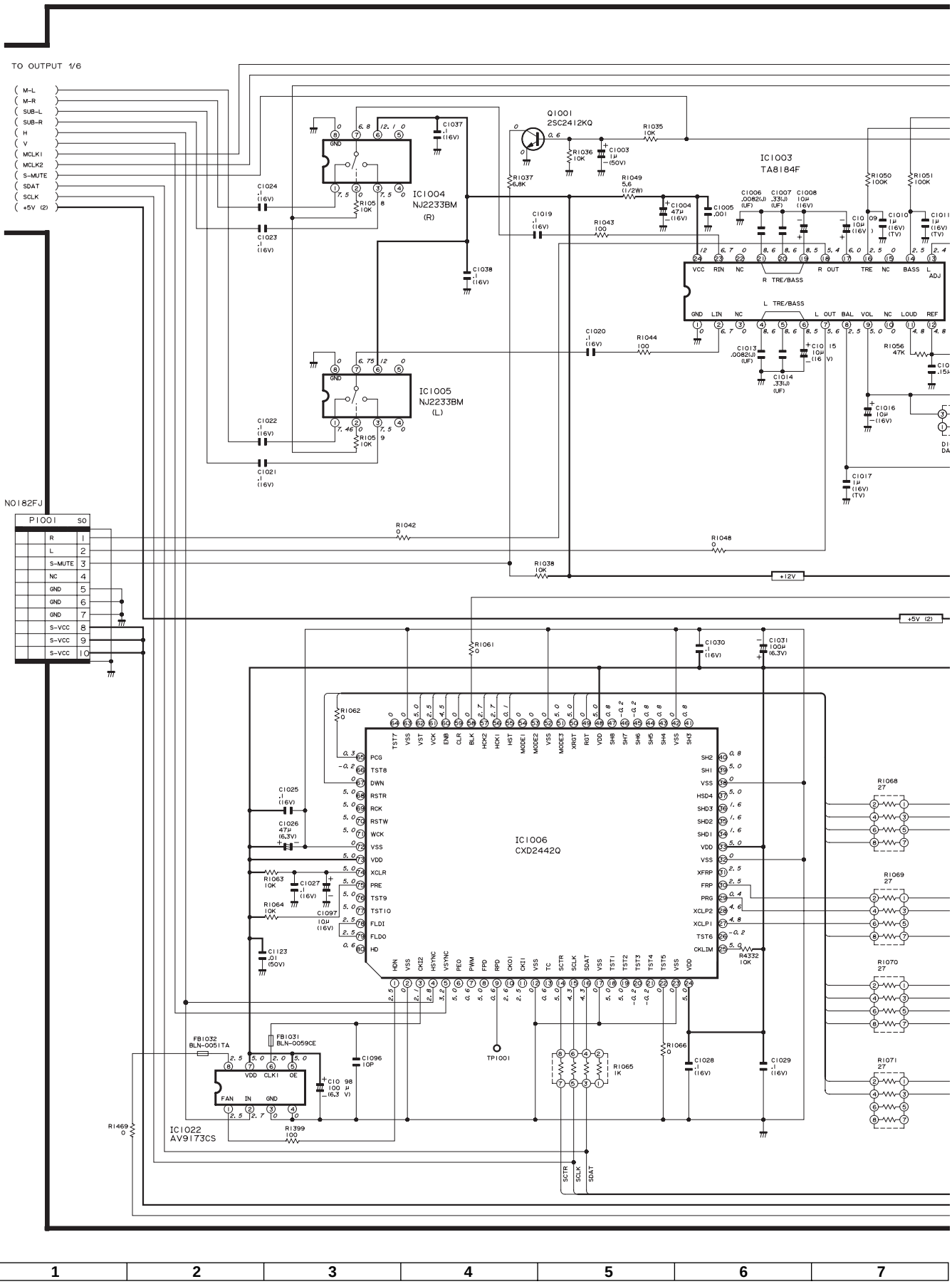
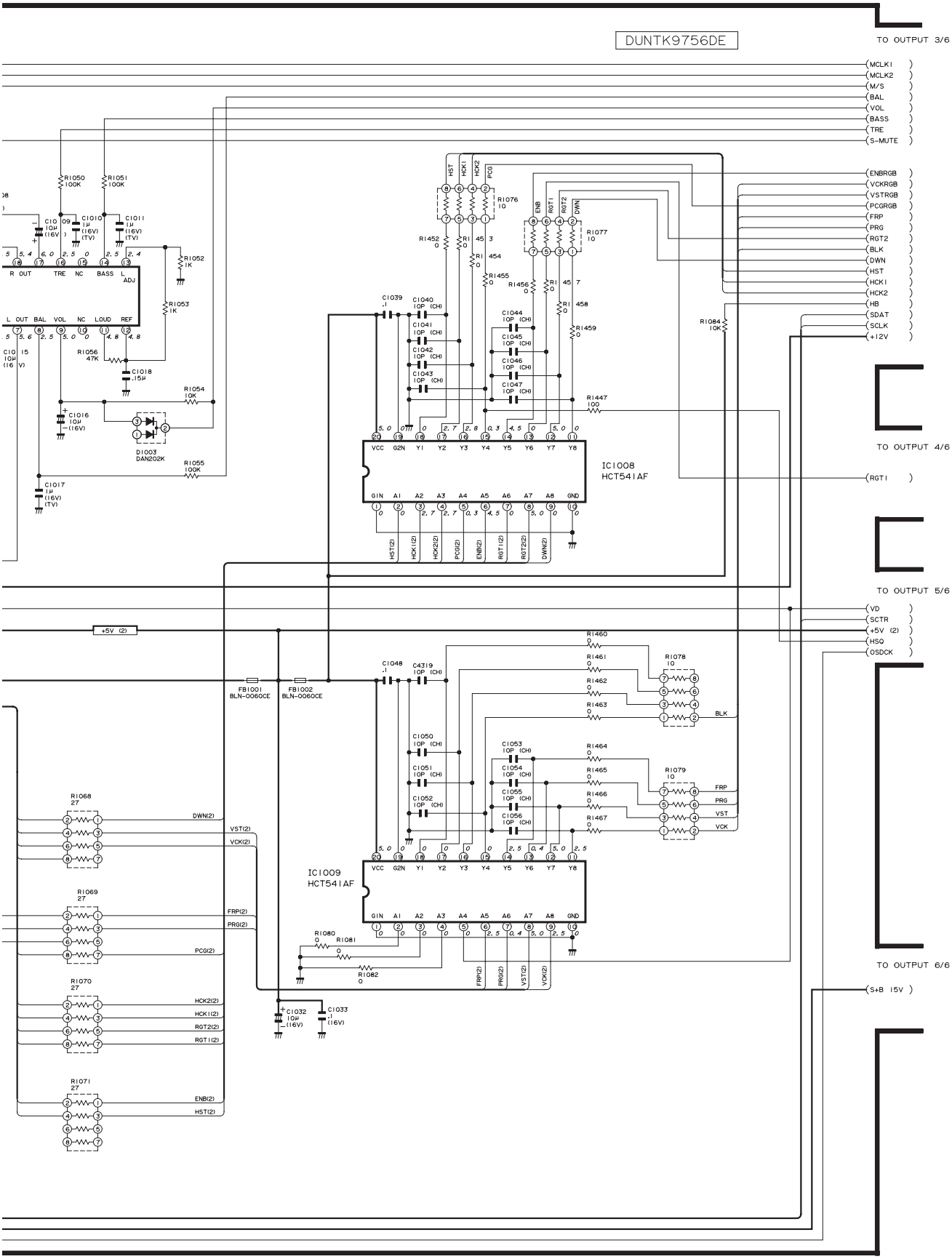
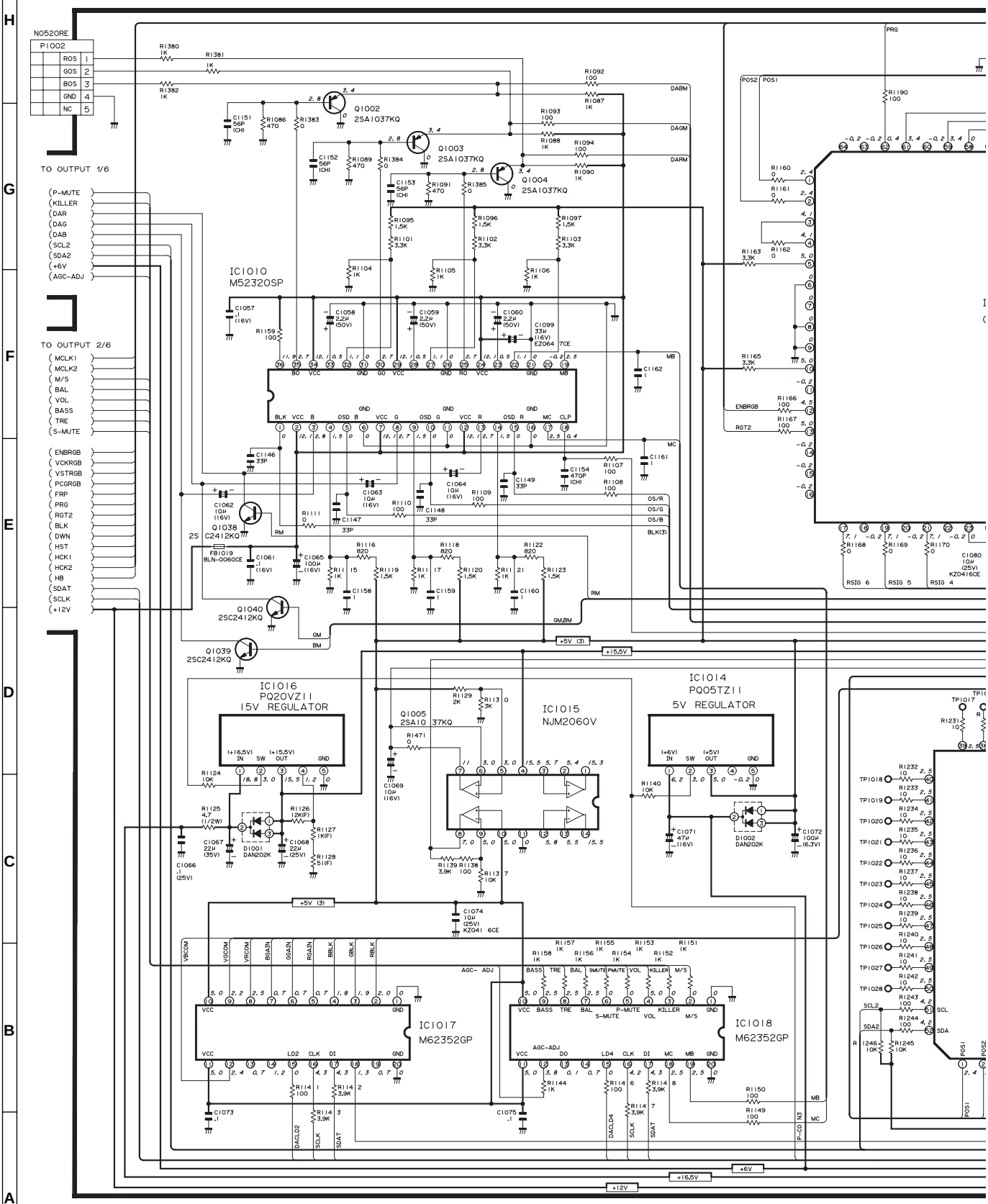
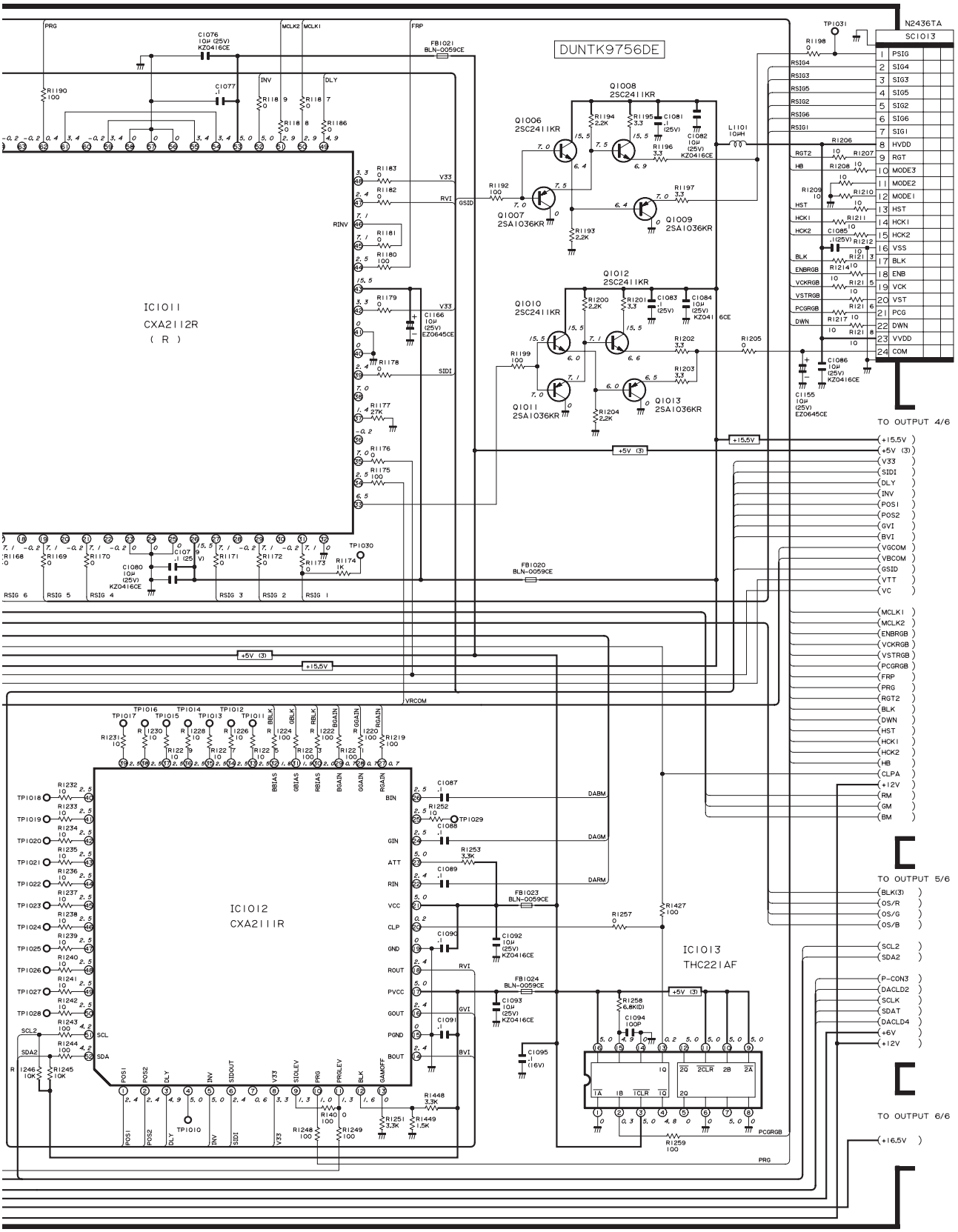




7	8	9	10	11	12	13

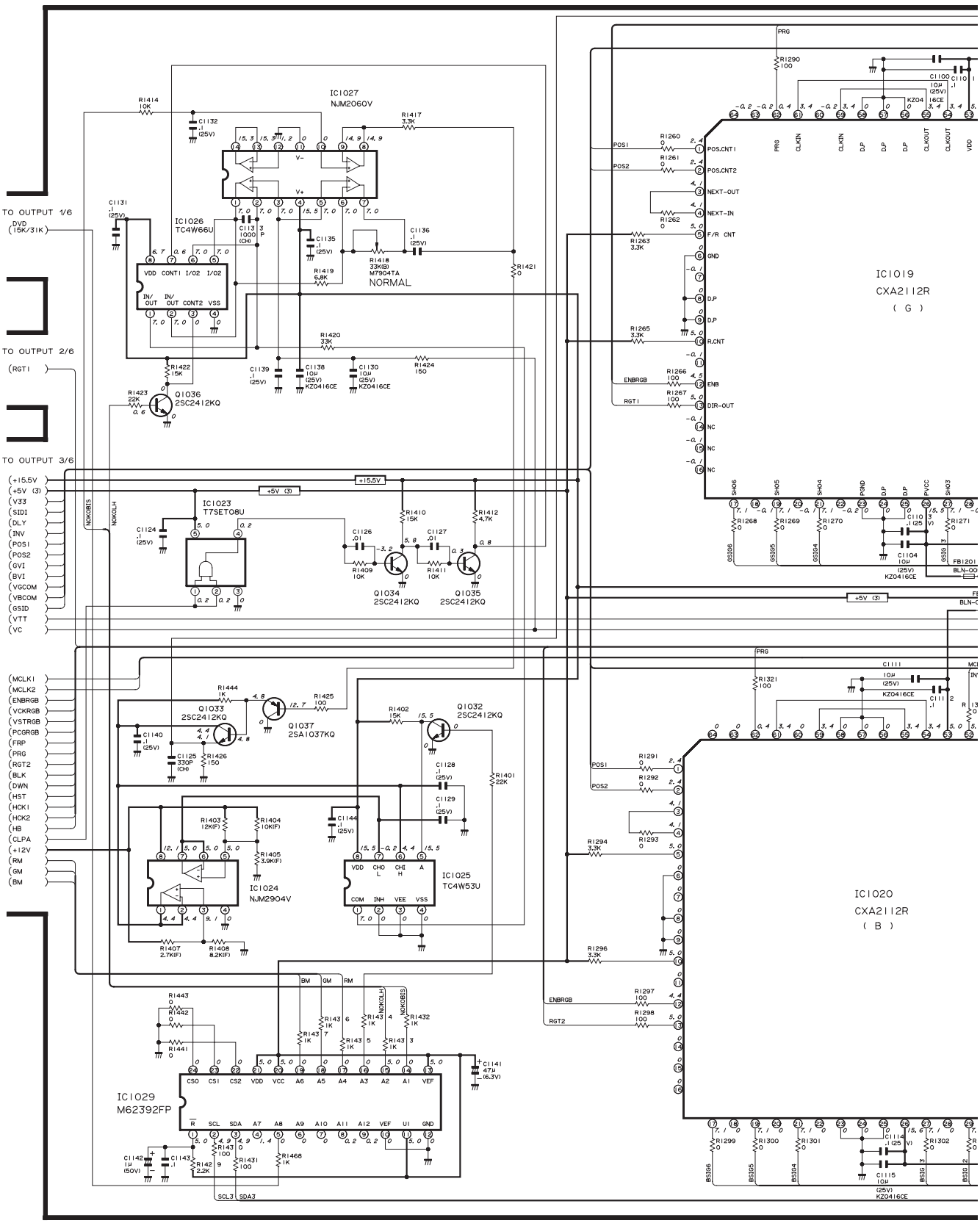
■ OUTPUT UNIT-3/6

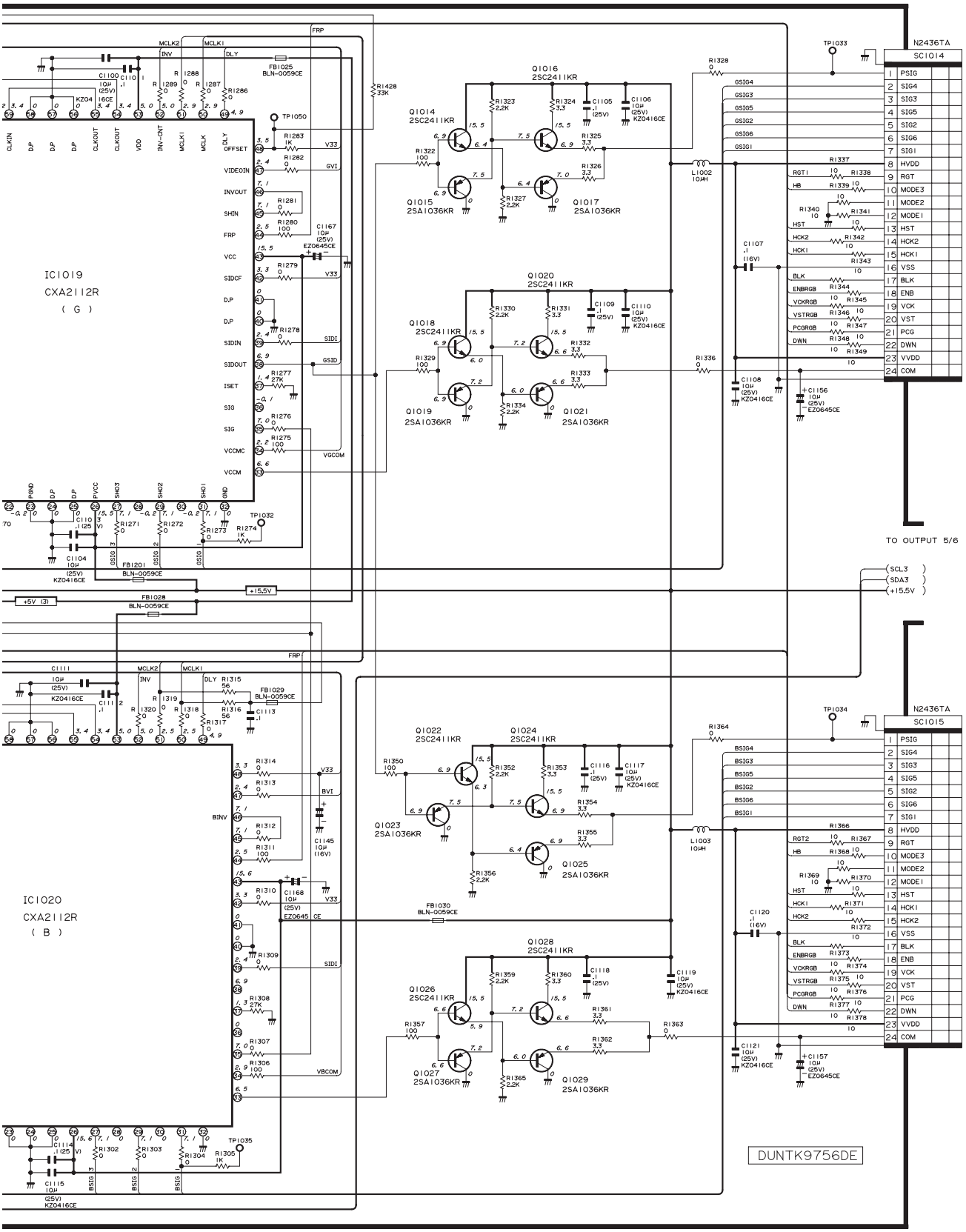




7	8	9	10	11	12	13

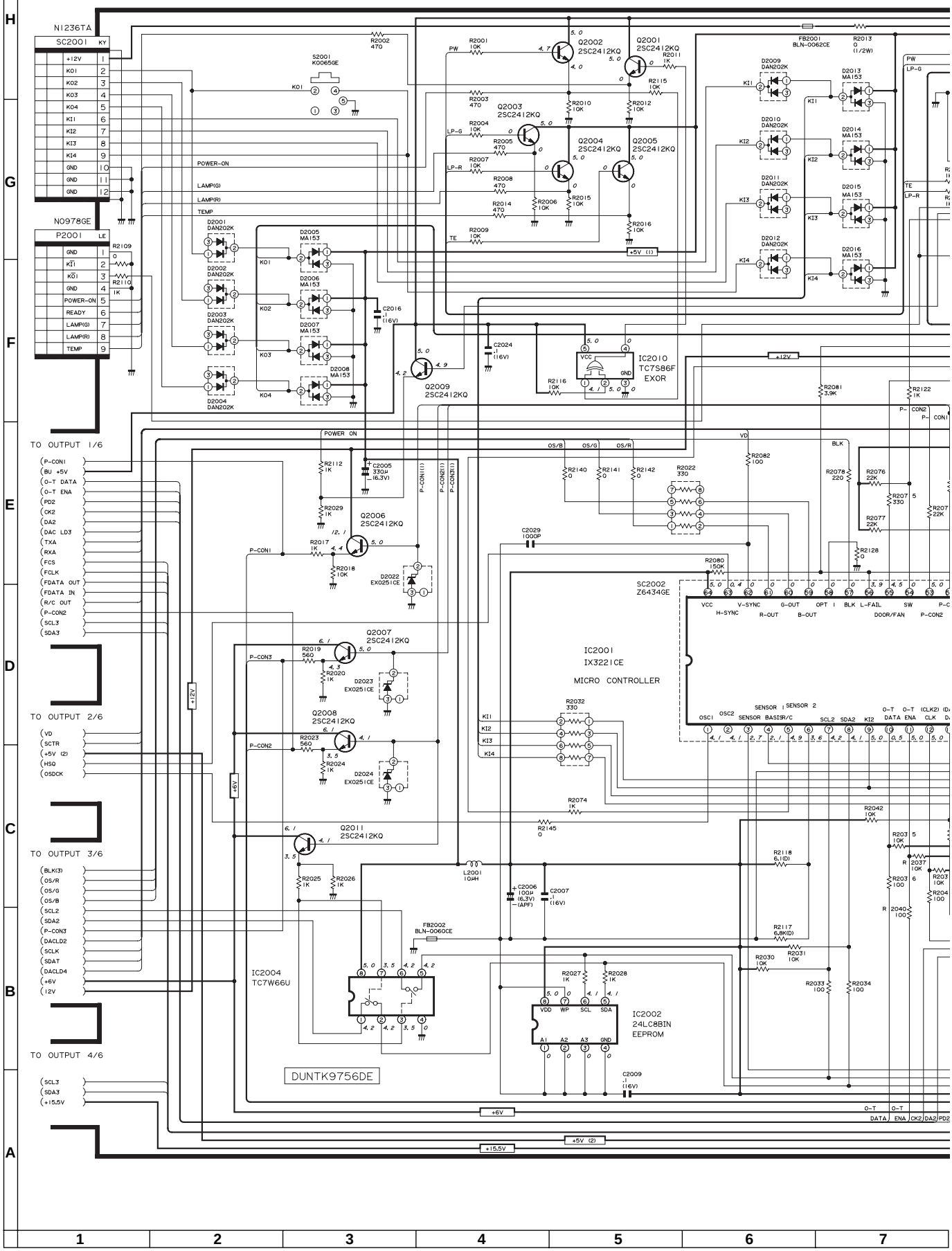
■ OUTPUT UNIT-4/6

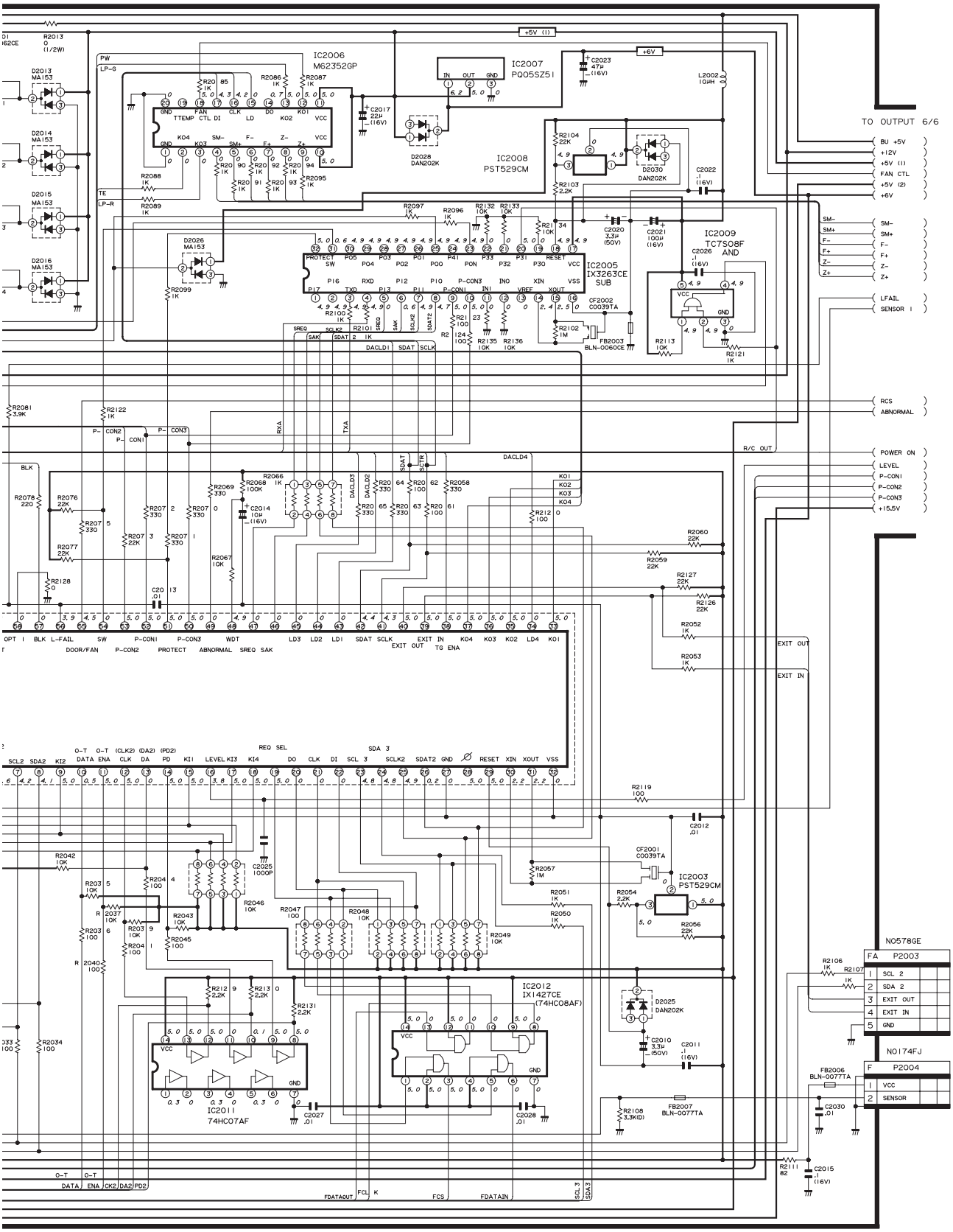




7	8	9	10	11	12	13

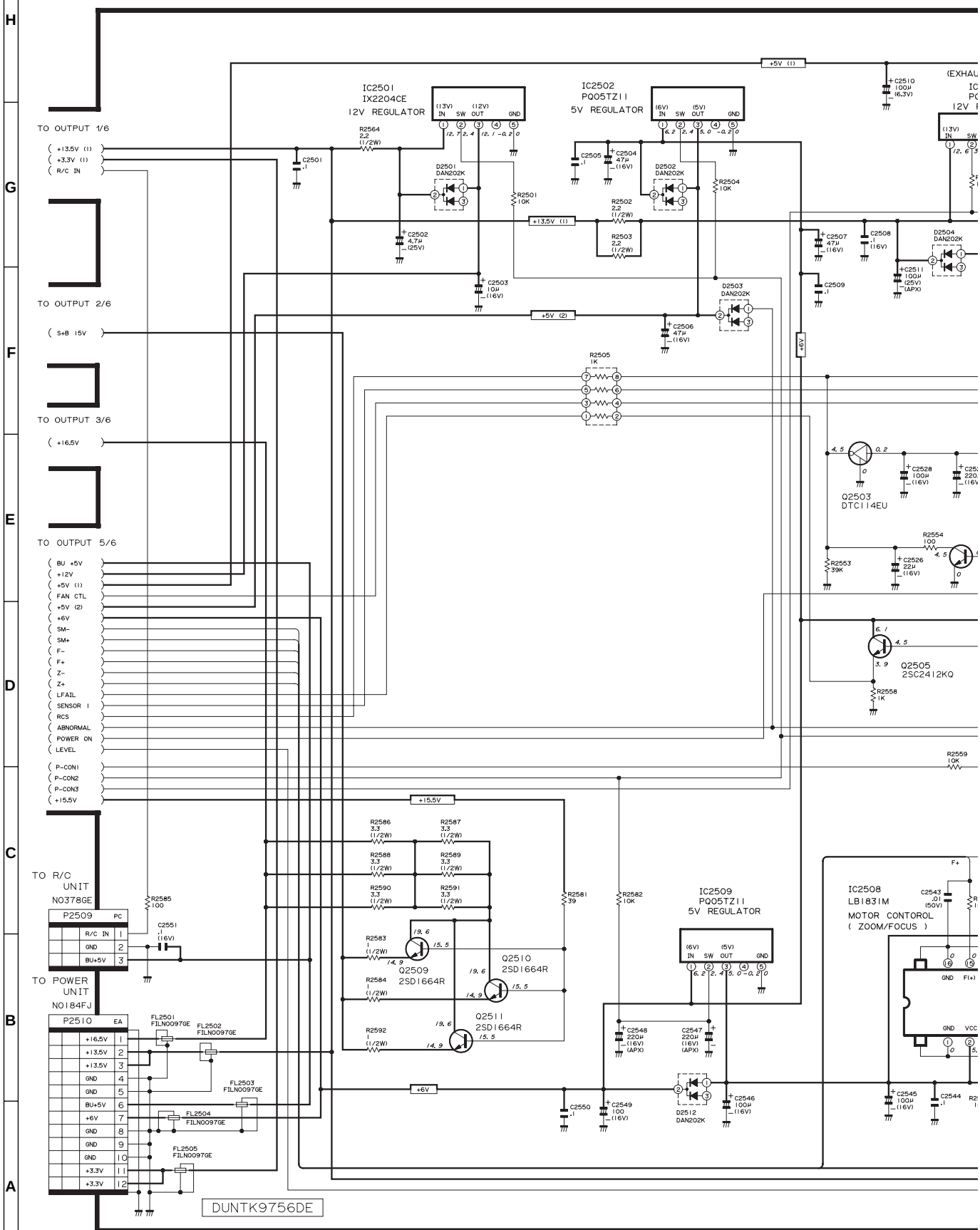
■ OUTPUT UNIT-5/6

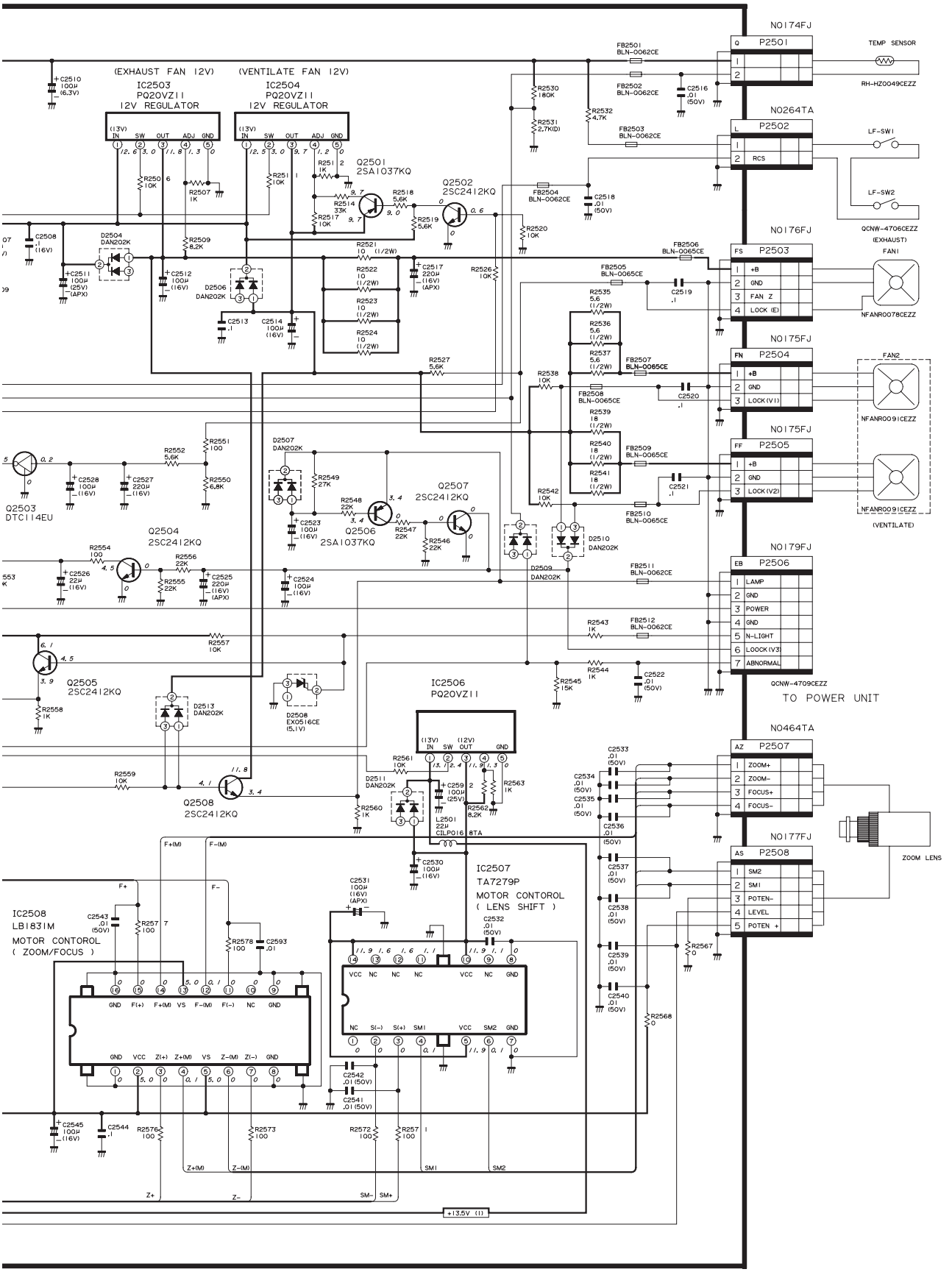




7	8	9	10	11	12	13

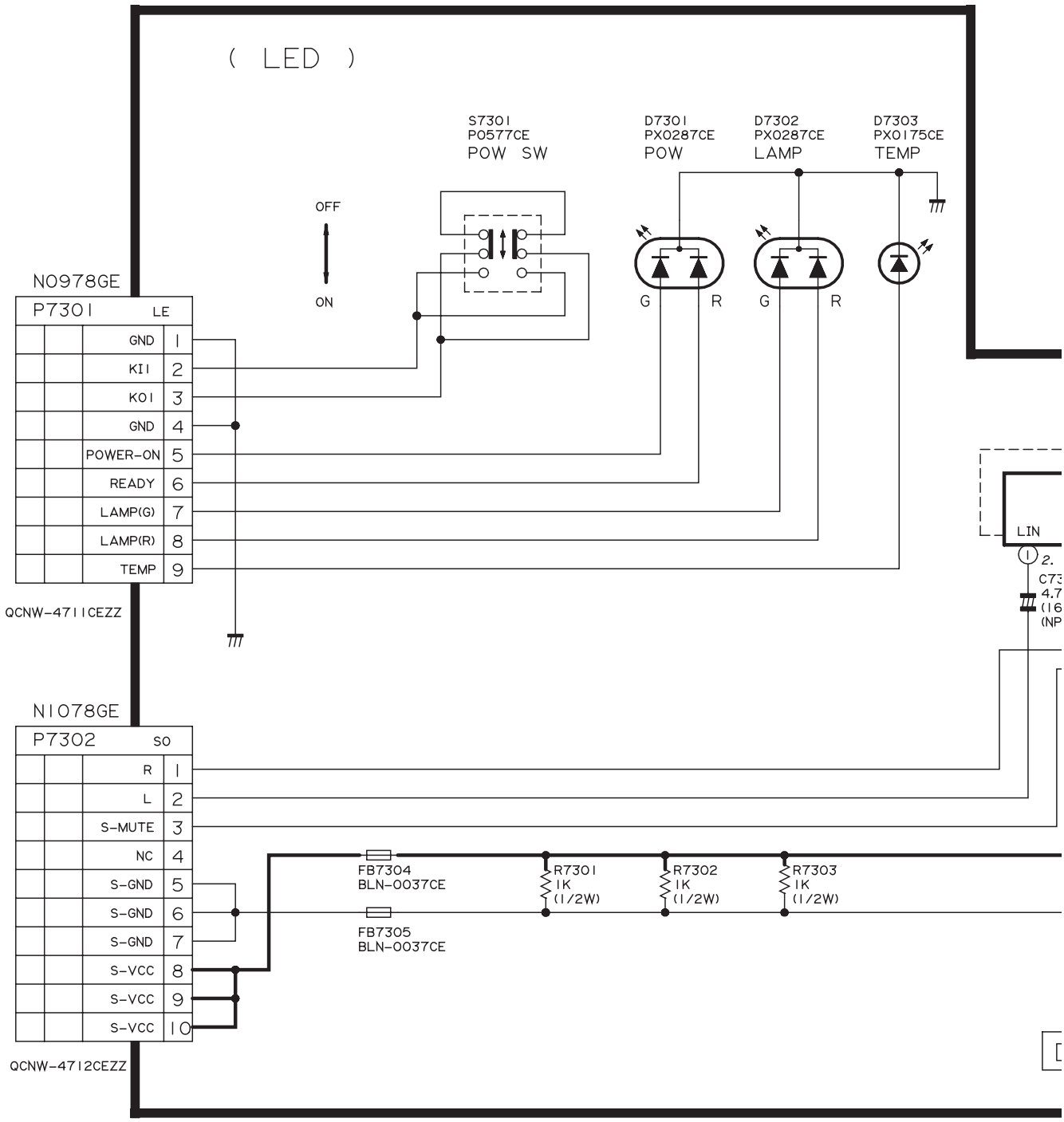
■ OUTPUT UNIT-6/6

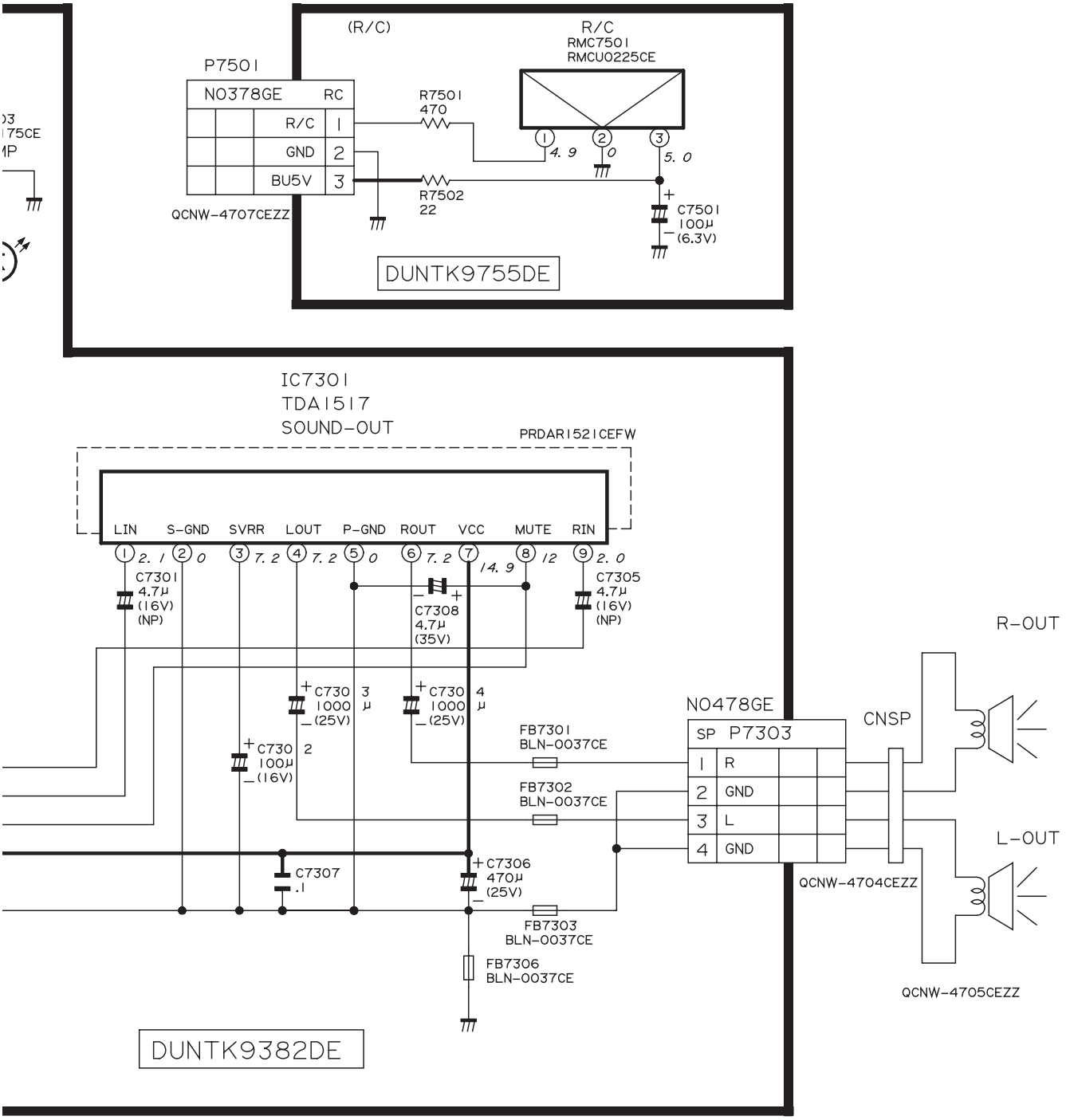




7	8	9	10	11	12	13

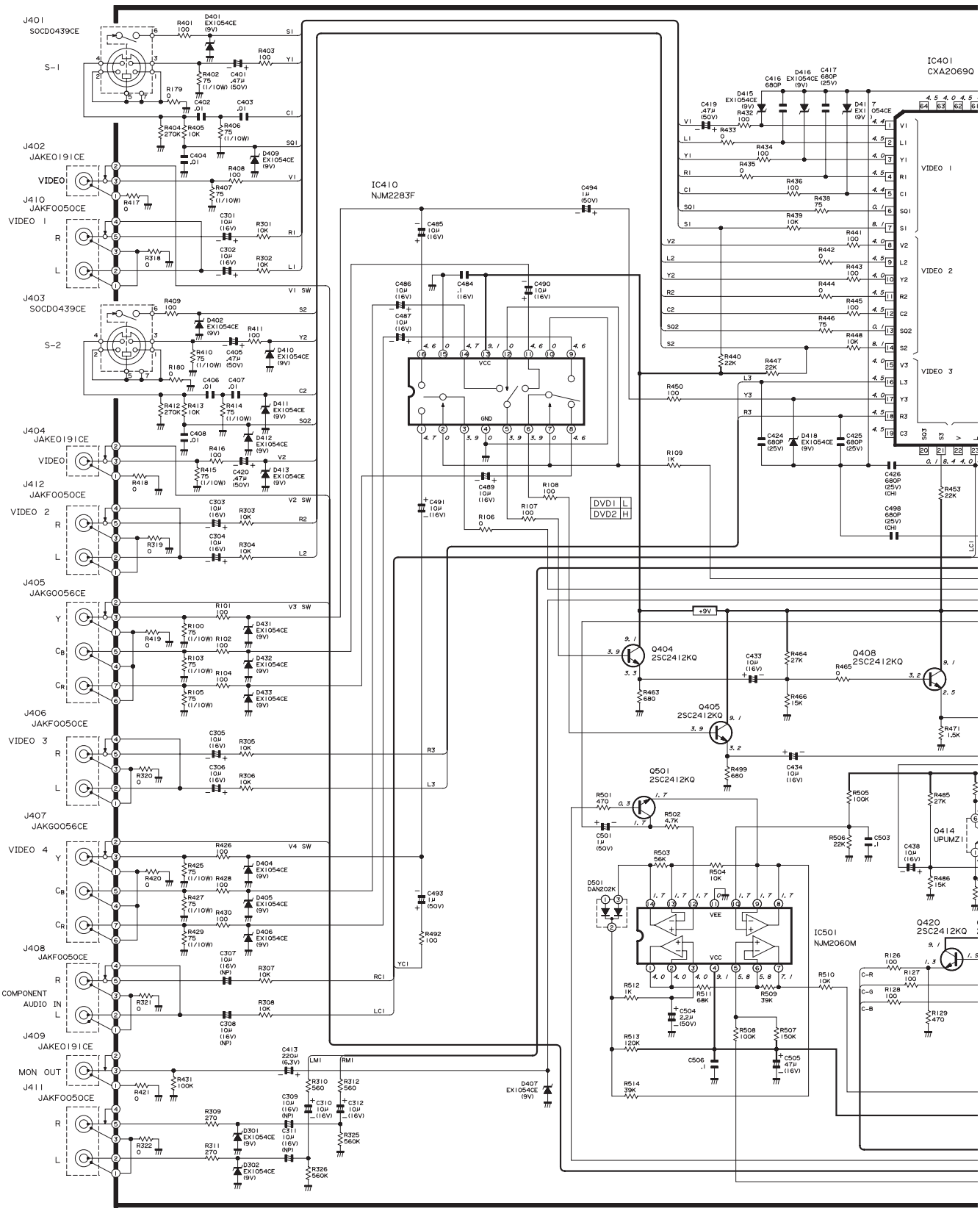
■ LED and INFRARED R/C RECEIVER UNIT

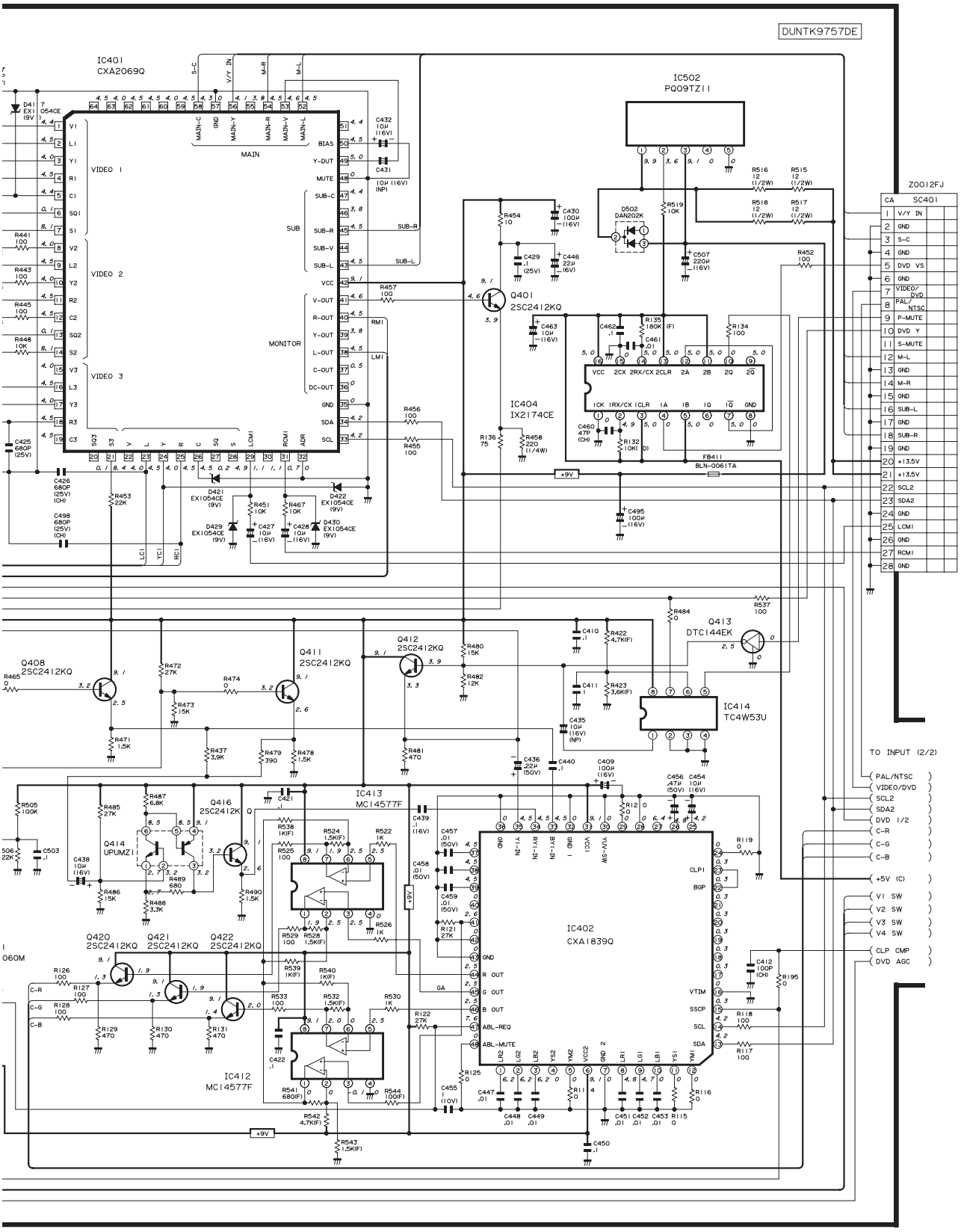




7	8	9	10	11	12	13

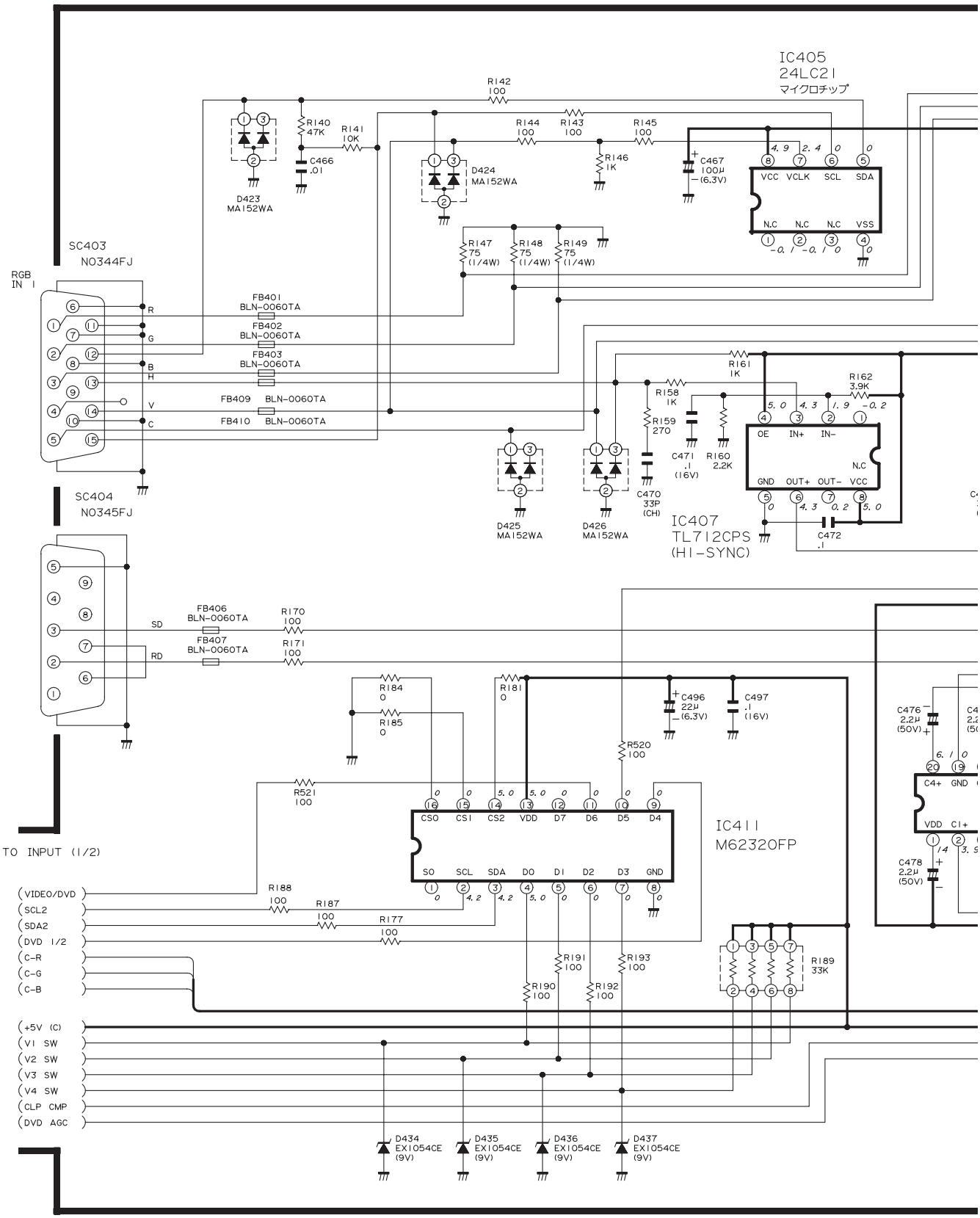
■ INPUT UNIT 1/2

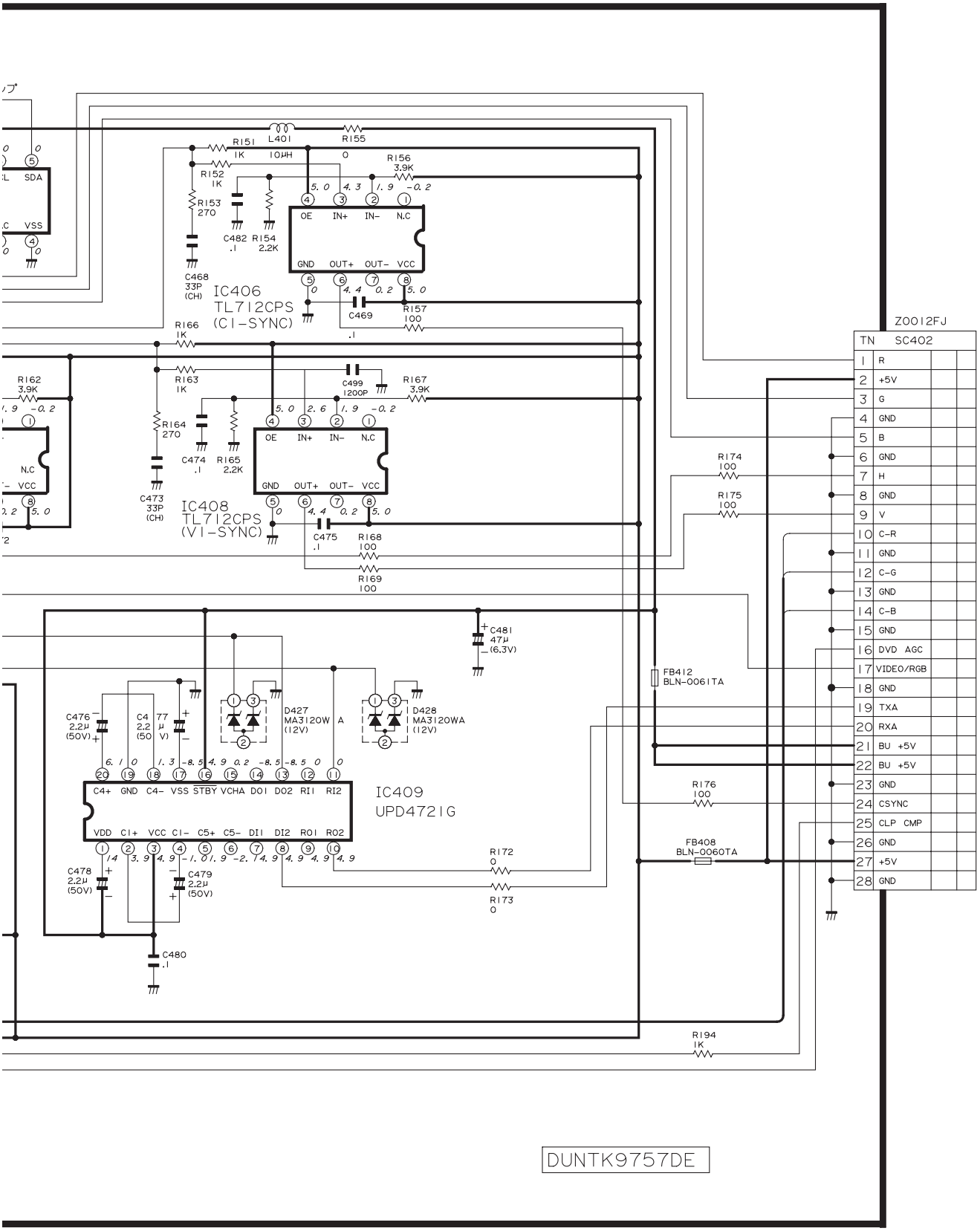




7	8	9	10	11	12	13

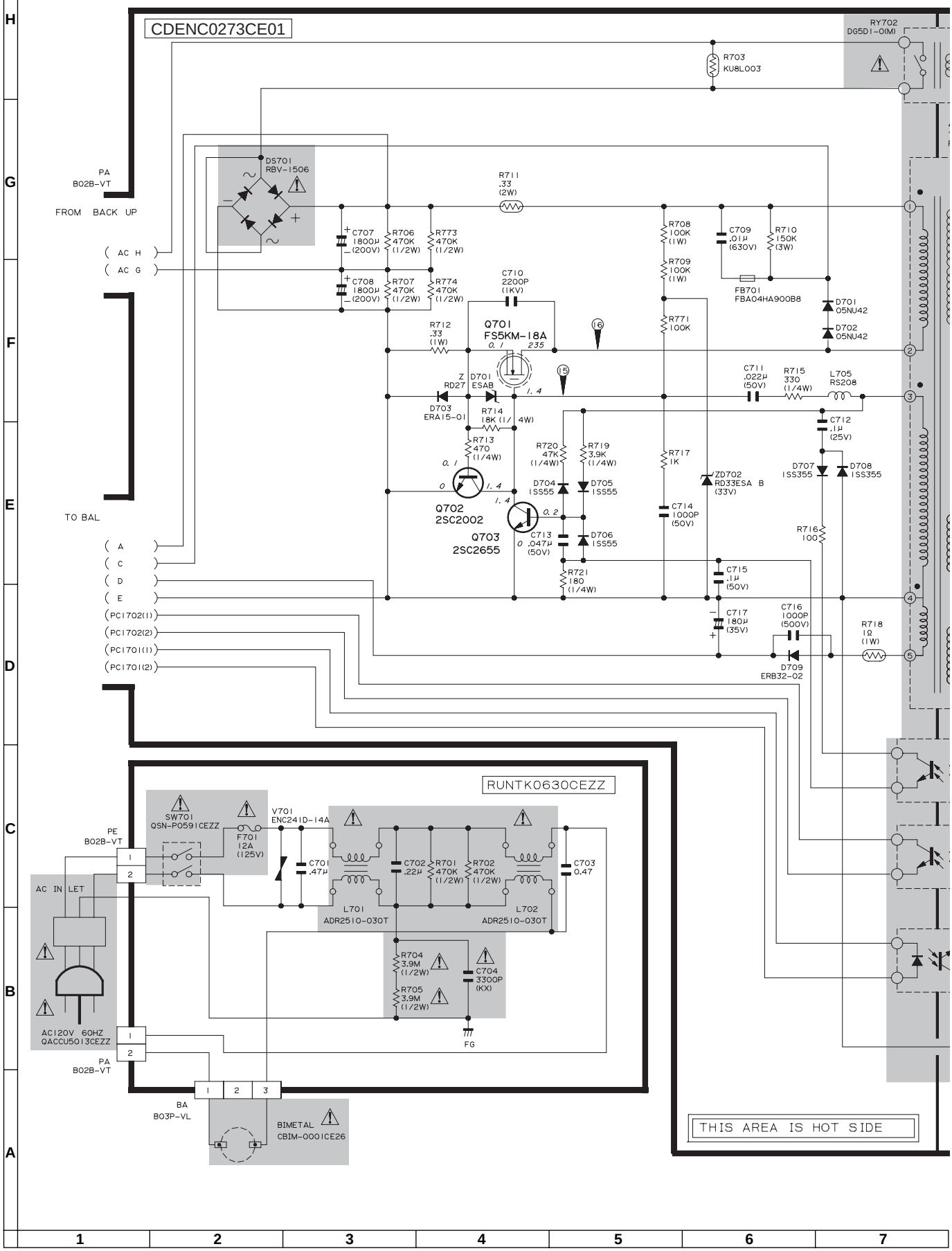
■ INPUT UNIT 2/2

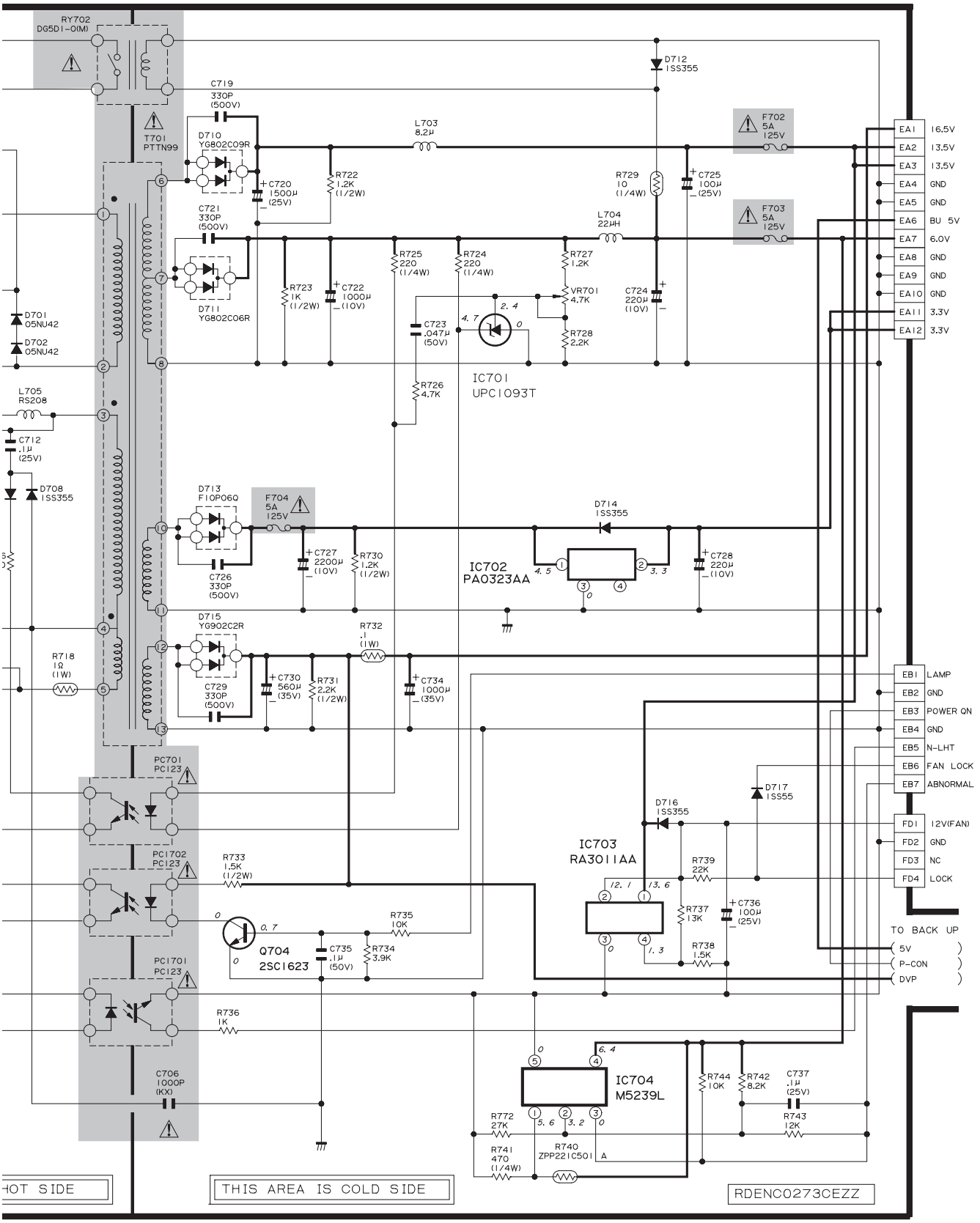




7	8	9	10	11	12	13

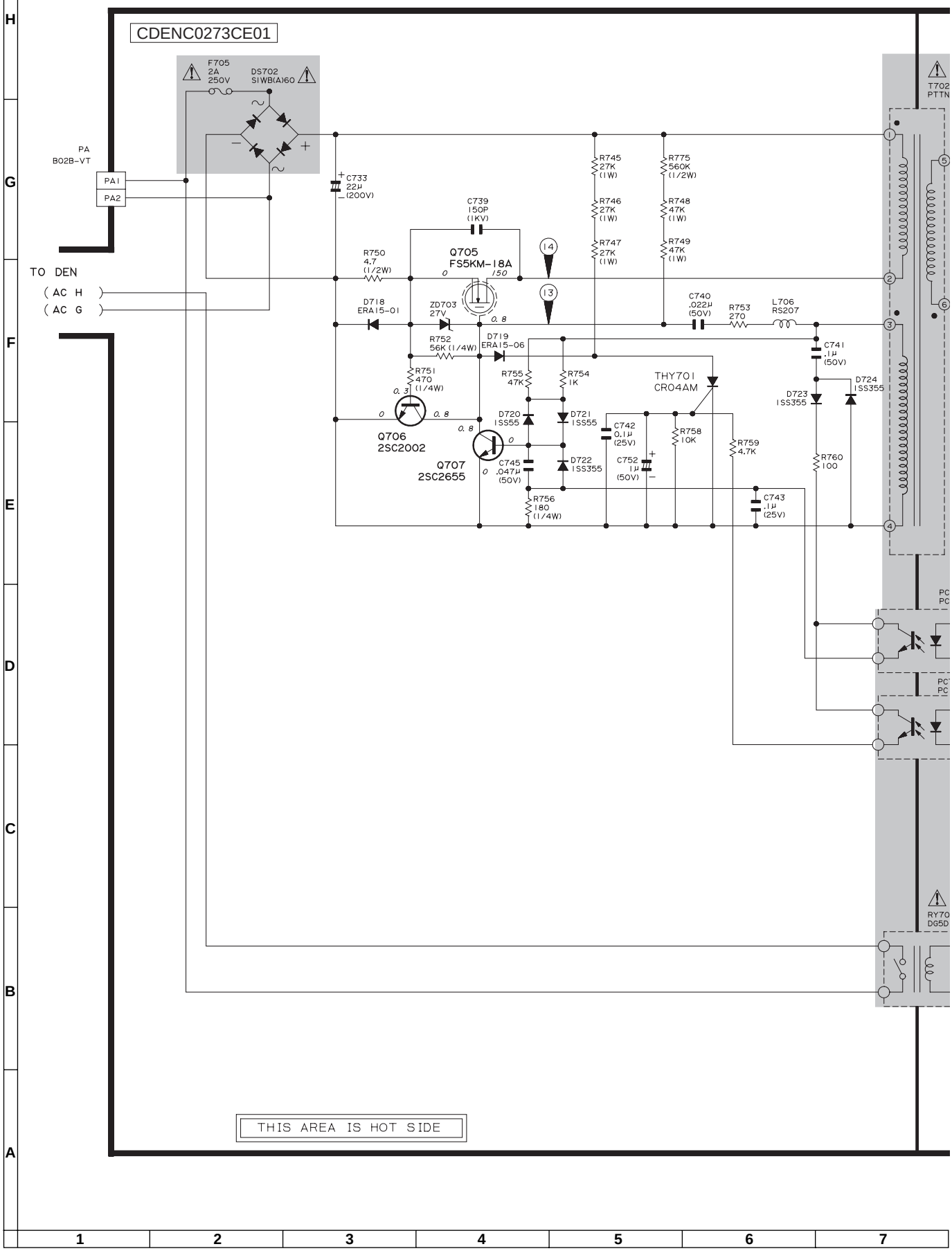
■ POWER and AC-SW UNIT

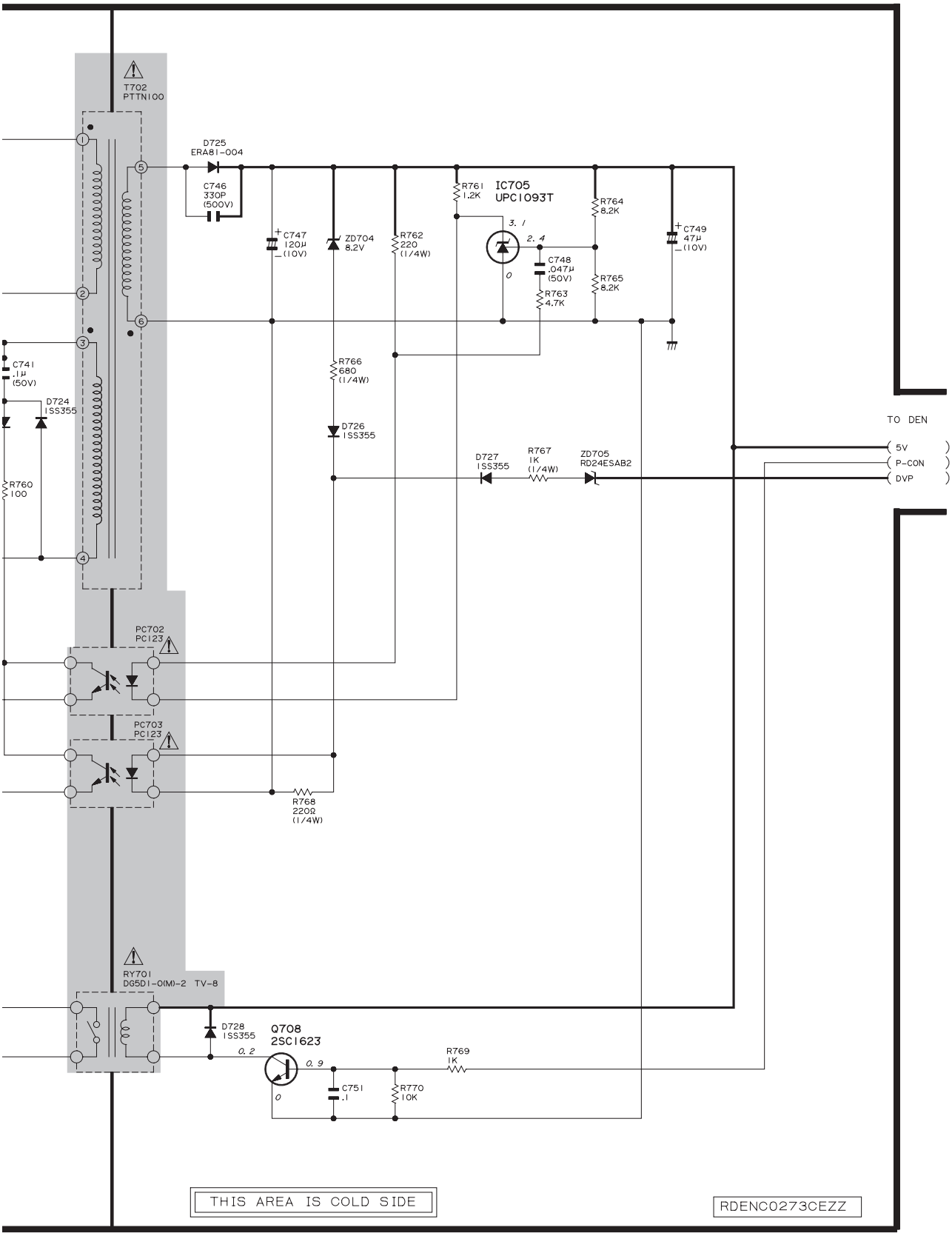




7	8	9	10	11	12	13

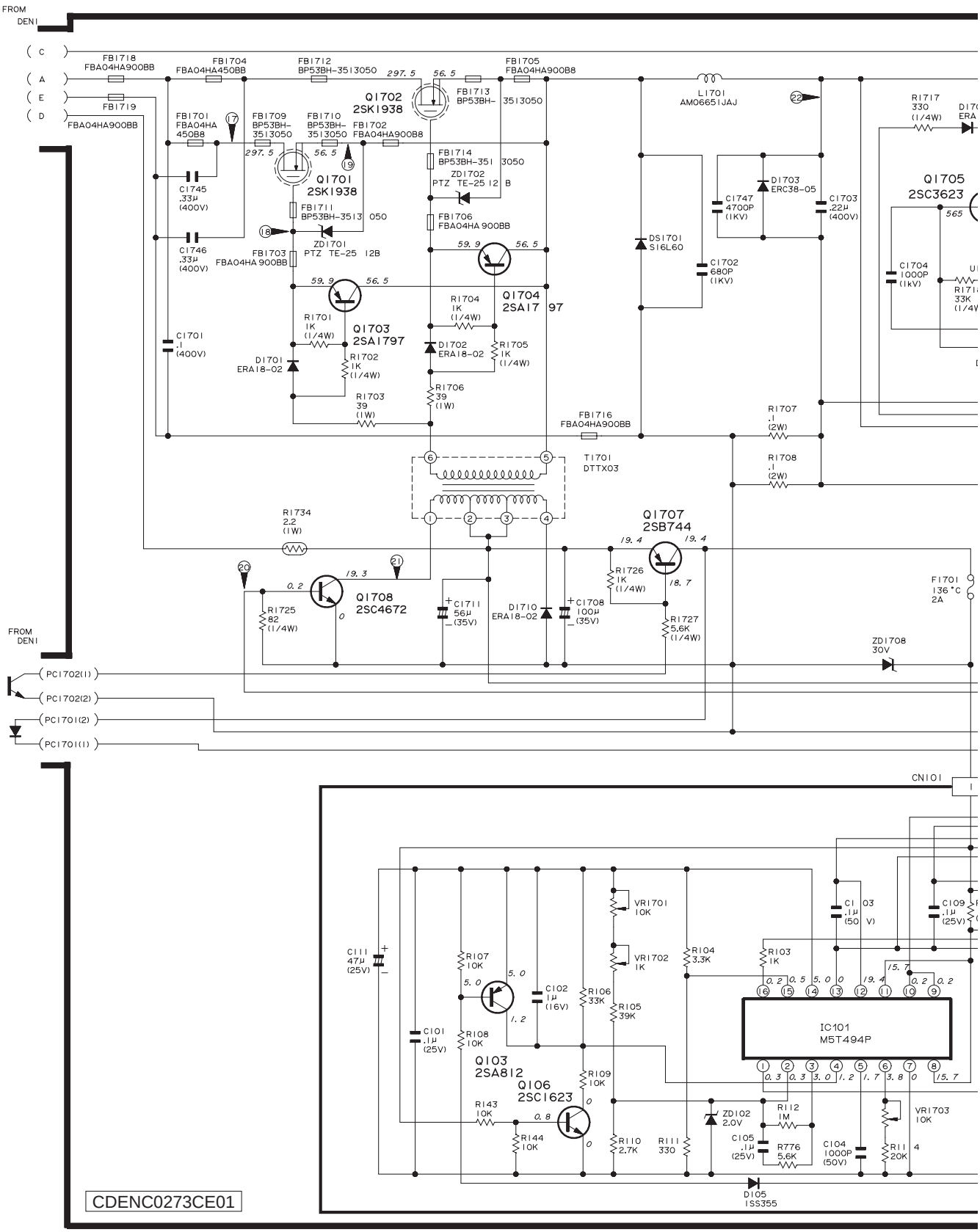
■ POWER UNIT 2/2

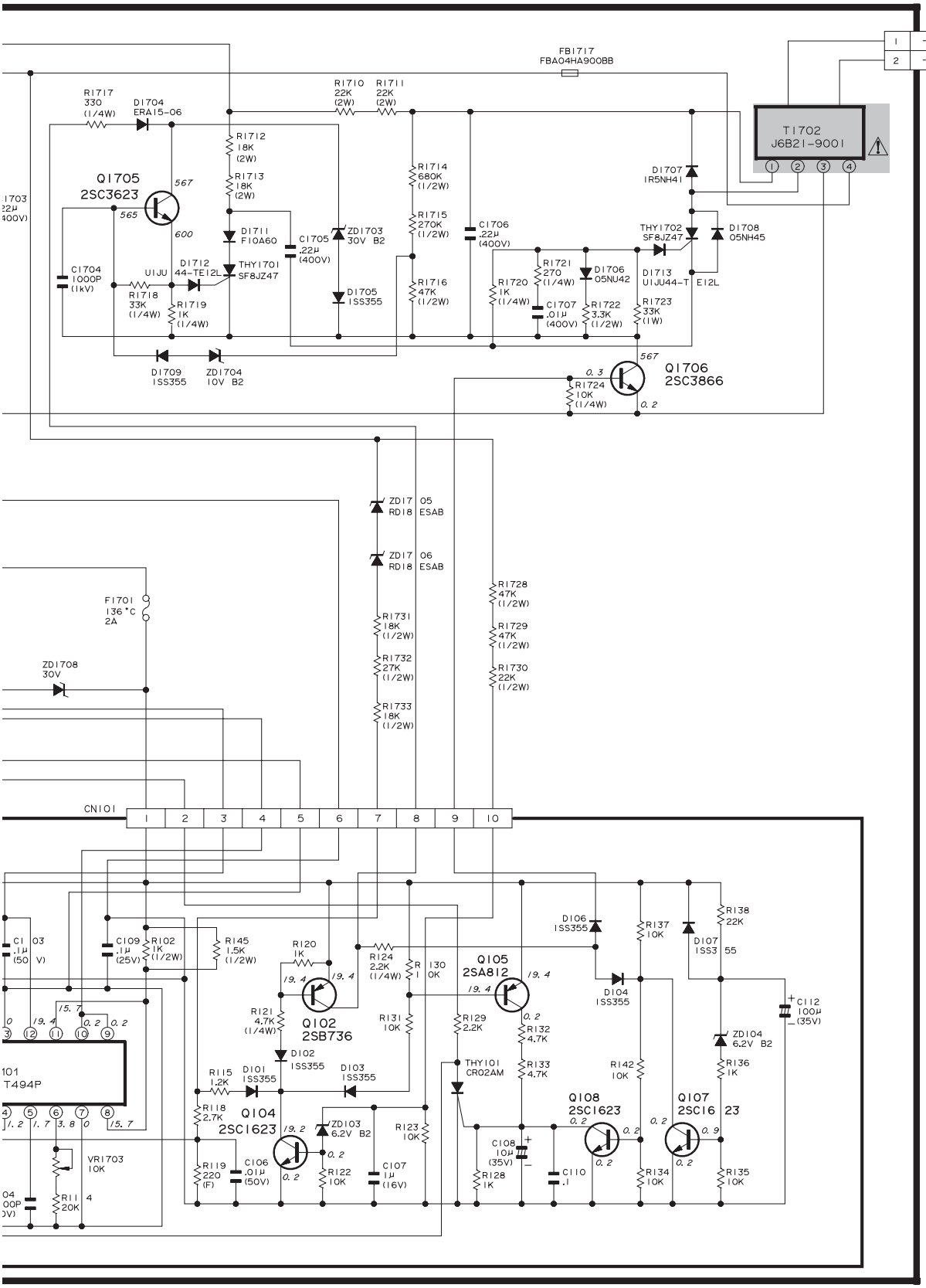




7	8	9	10	11	12	13

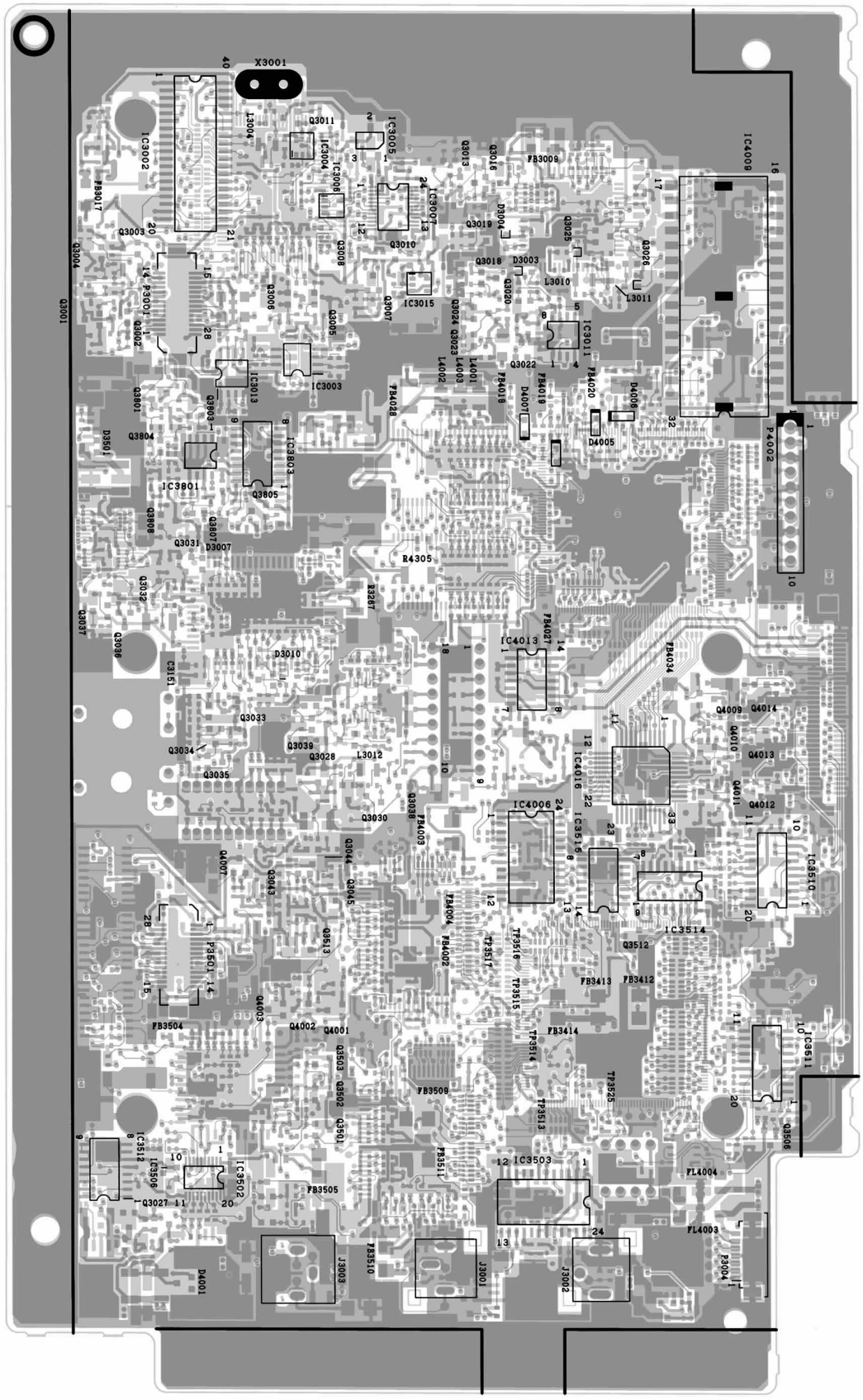
■ BALLAST UNIT





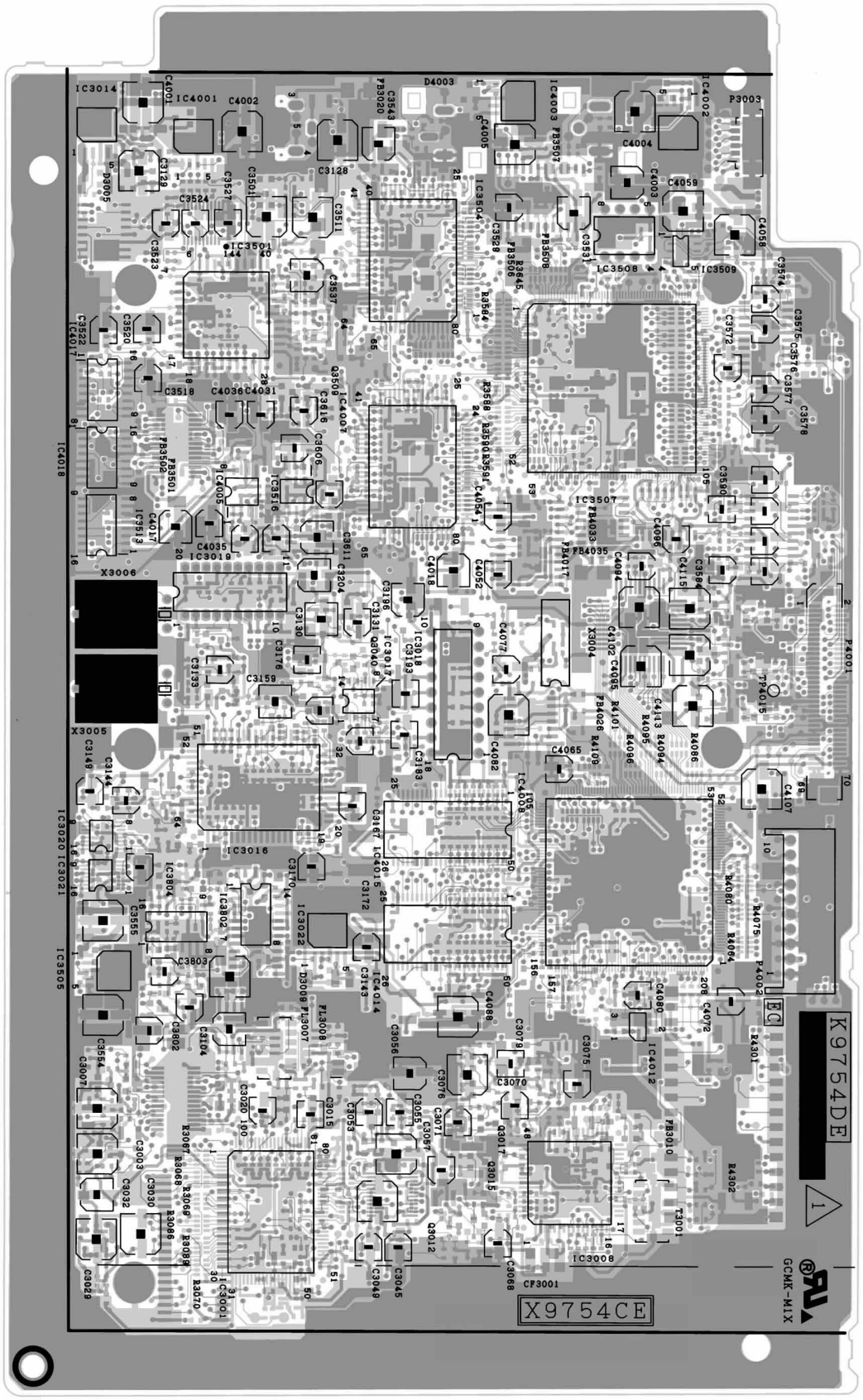
7	8	9	10	11	12	13

PRINTED WIRING BOARD ASSEMBLIES



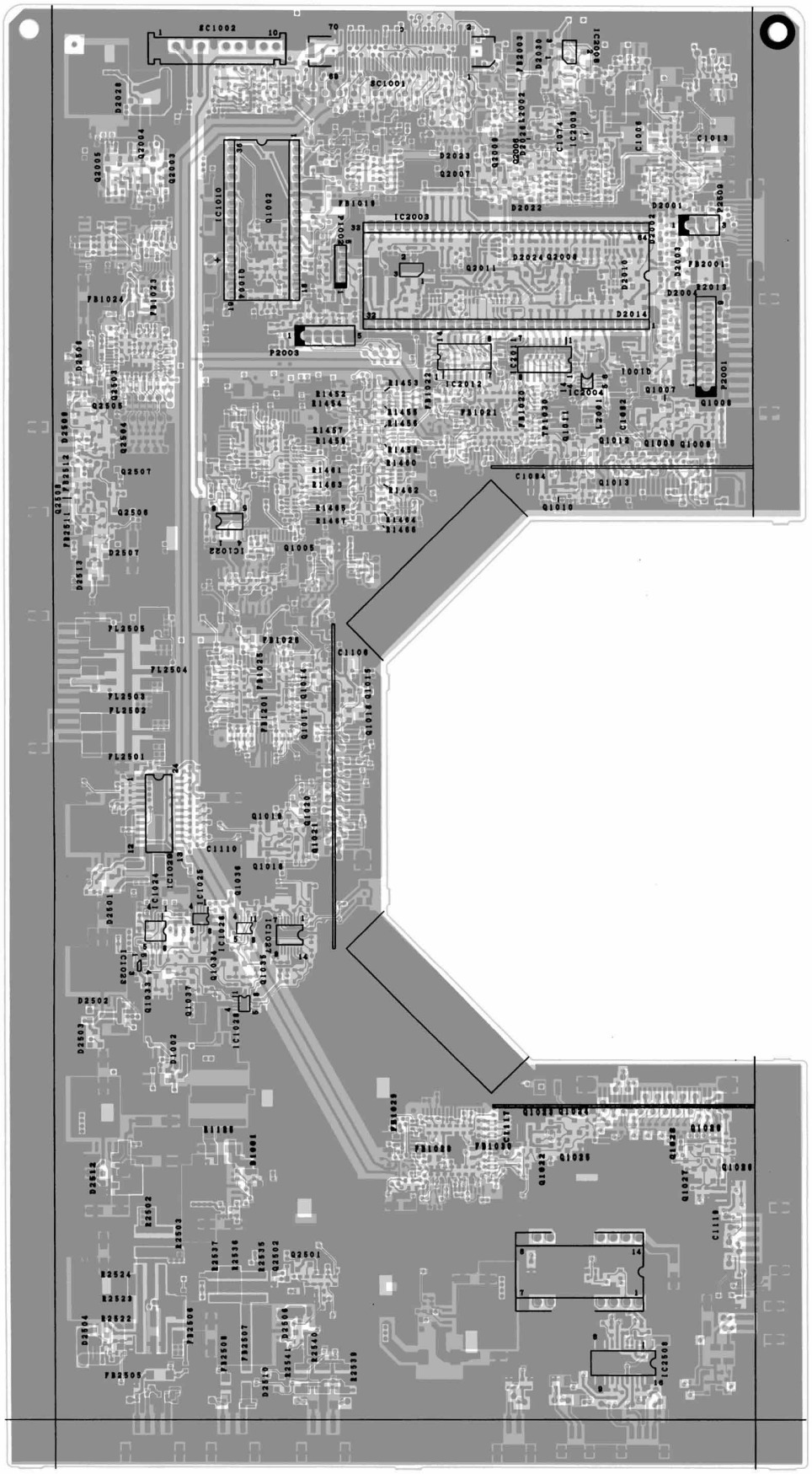
Signal Unit (Wiring Side)

1	2	3	4	5	6

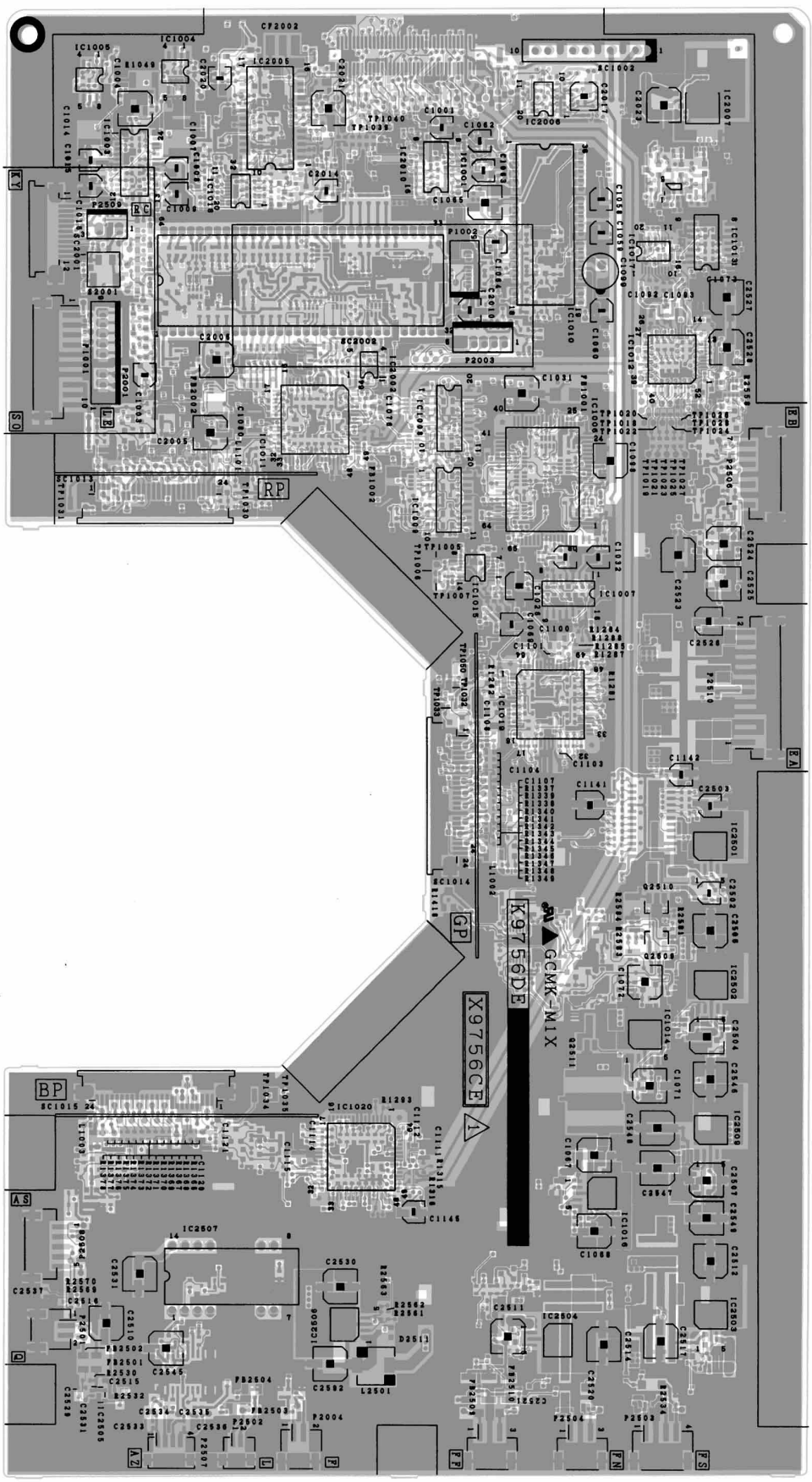


Signal Unit (Component Side)

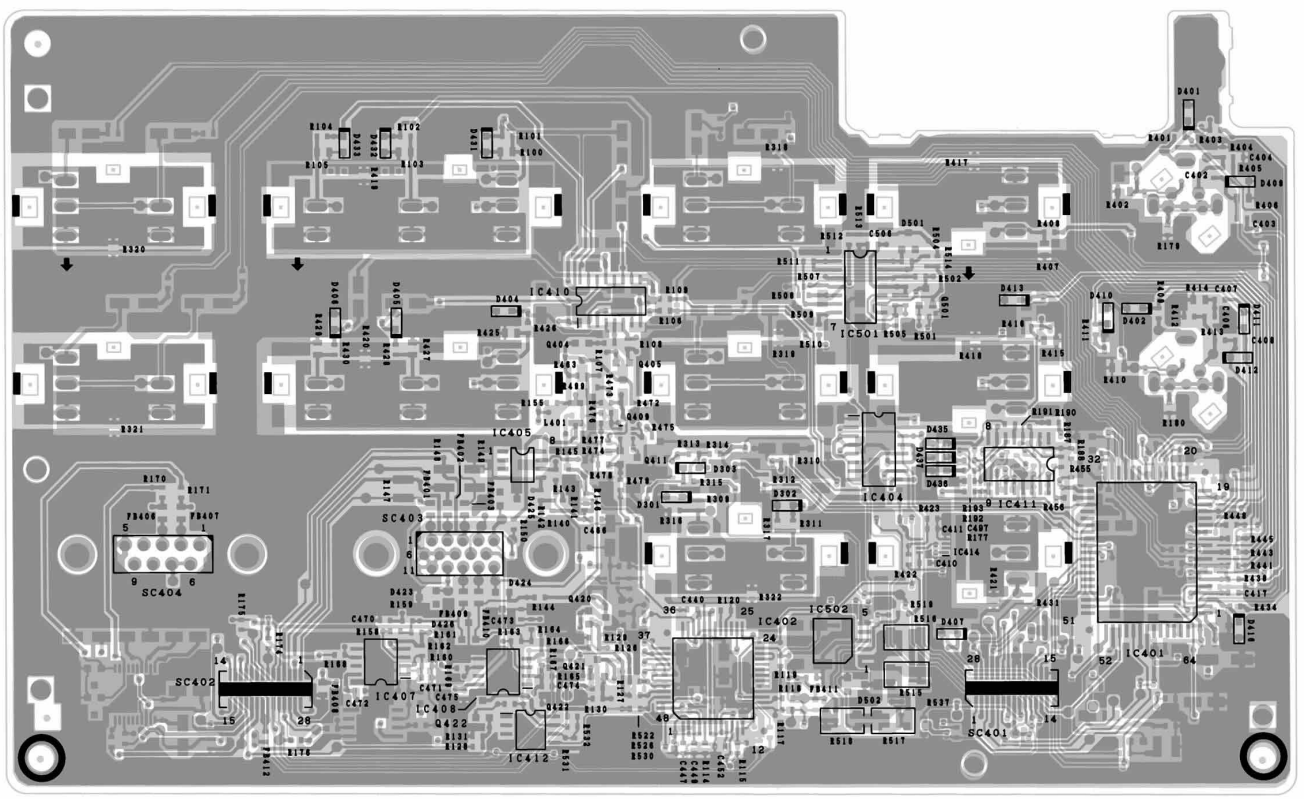
1	2	3	4	5	6



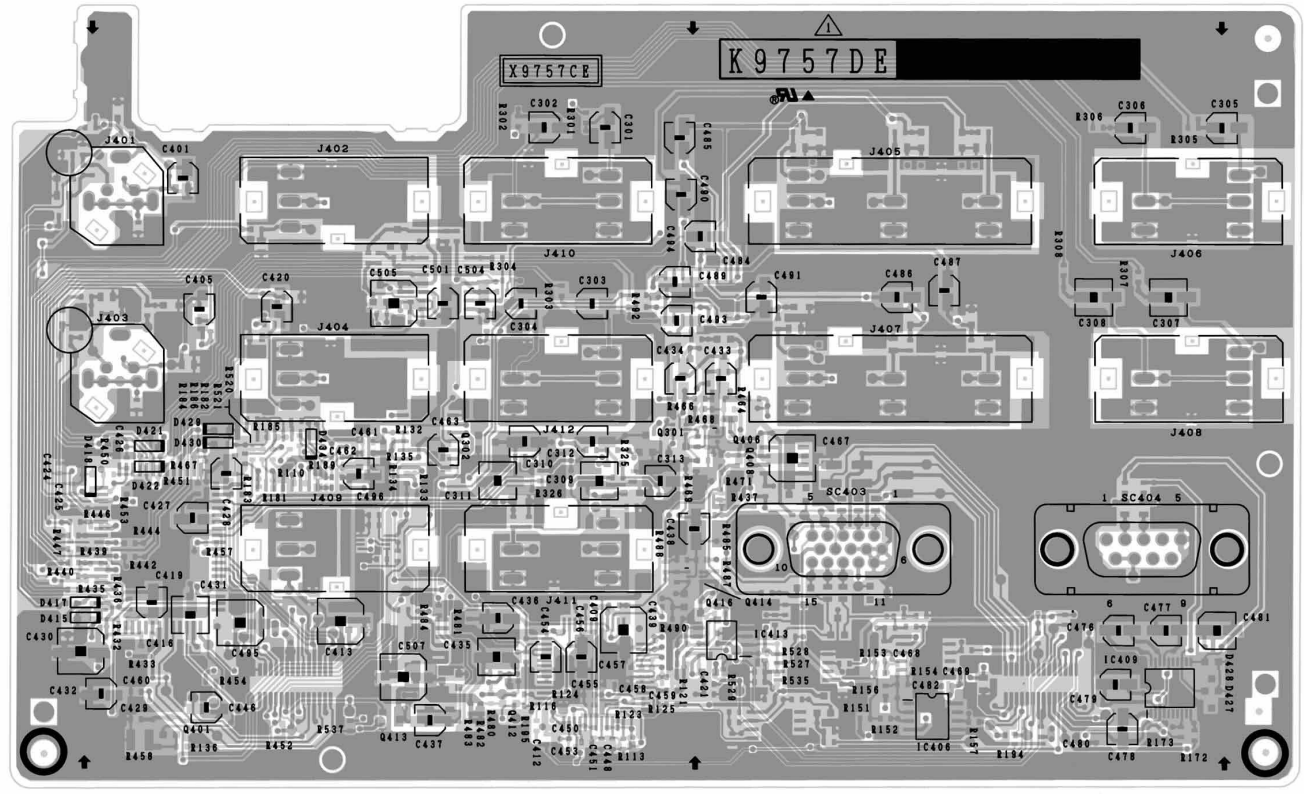
Output Unit (Wiring Side)



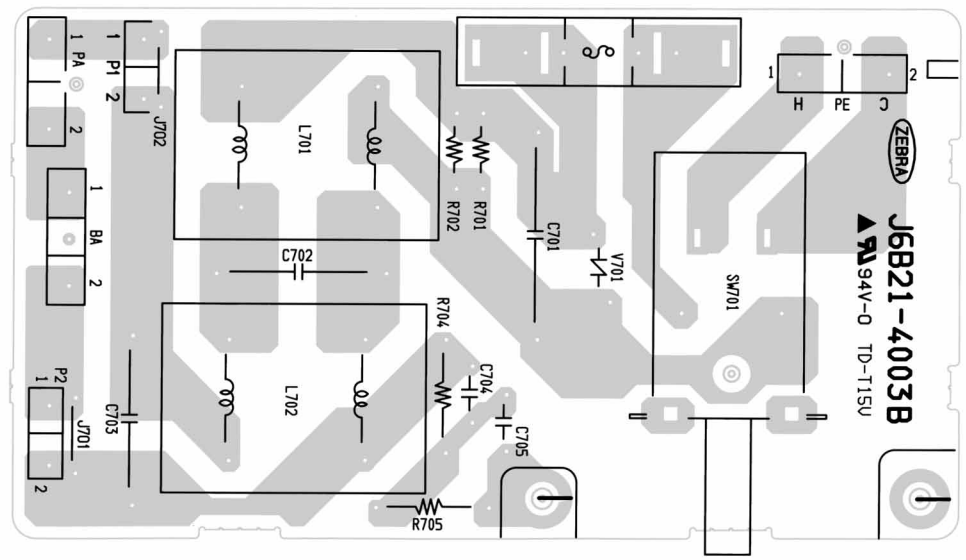
Output Unit (Component Side)



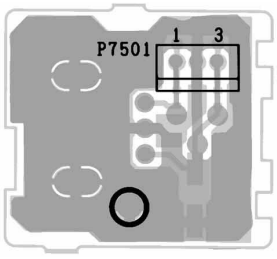
Input Unit (Wiring Side)



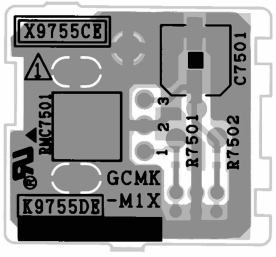
Input Unit (Component Side)



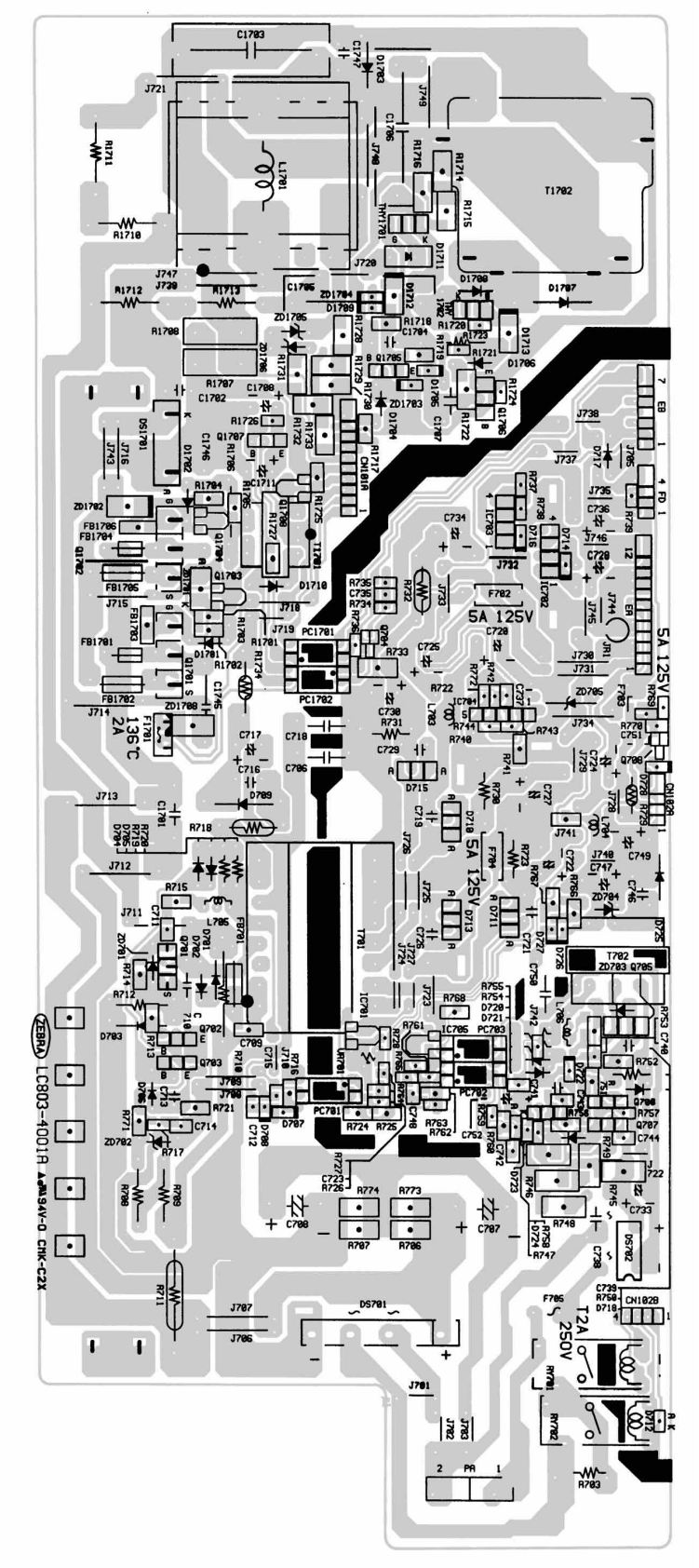
AC-SW Unit (Wiring Side)



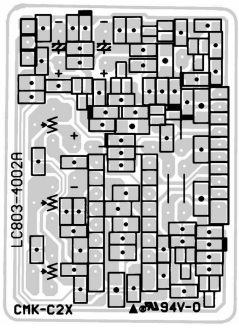
Infrared R/C Receiver Unit (Wiring Side)



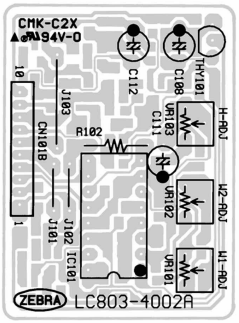
Infrared R/C Receiver Unit (Component Side)



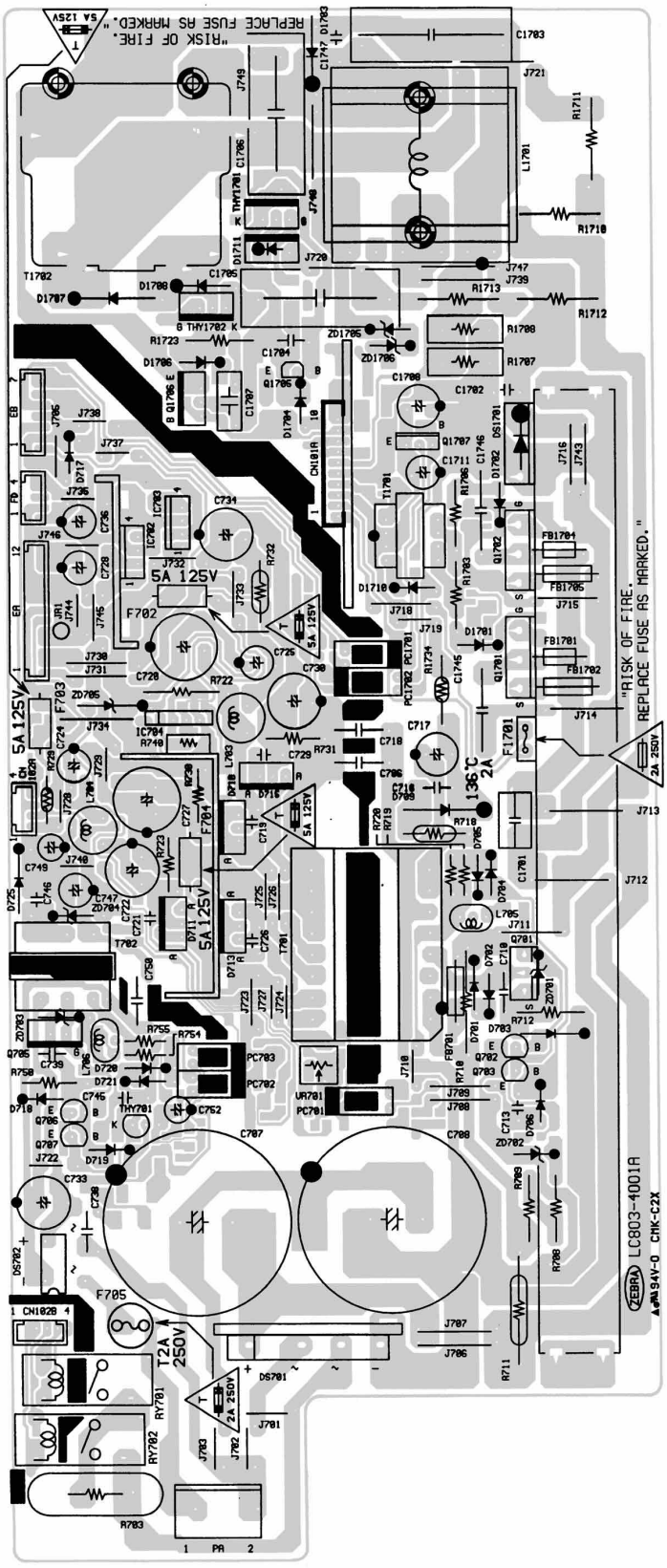
Power/Ballast Unit-1 (Wiring Side)



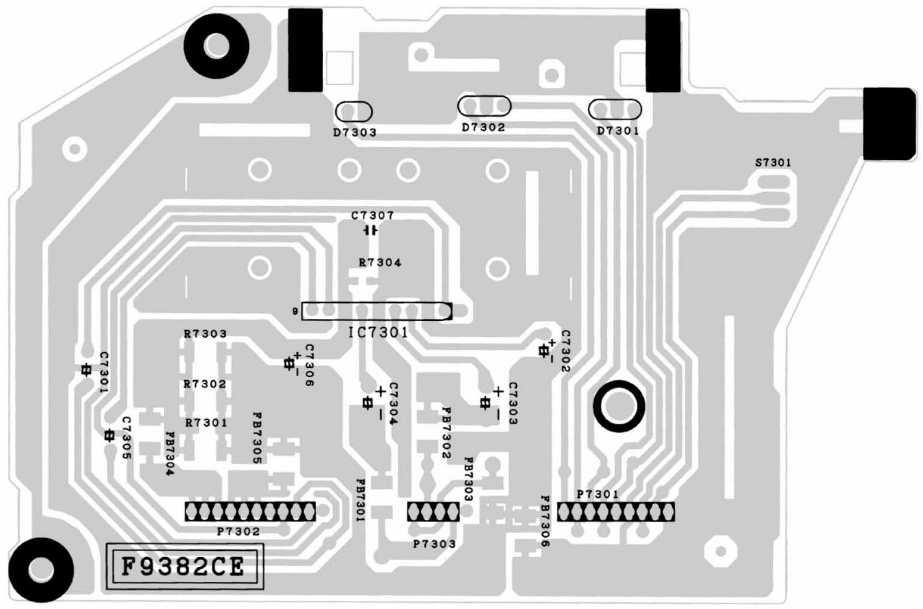
Power/Ballast Unit-2
(Wiring Side)



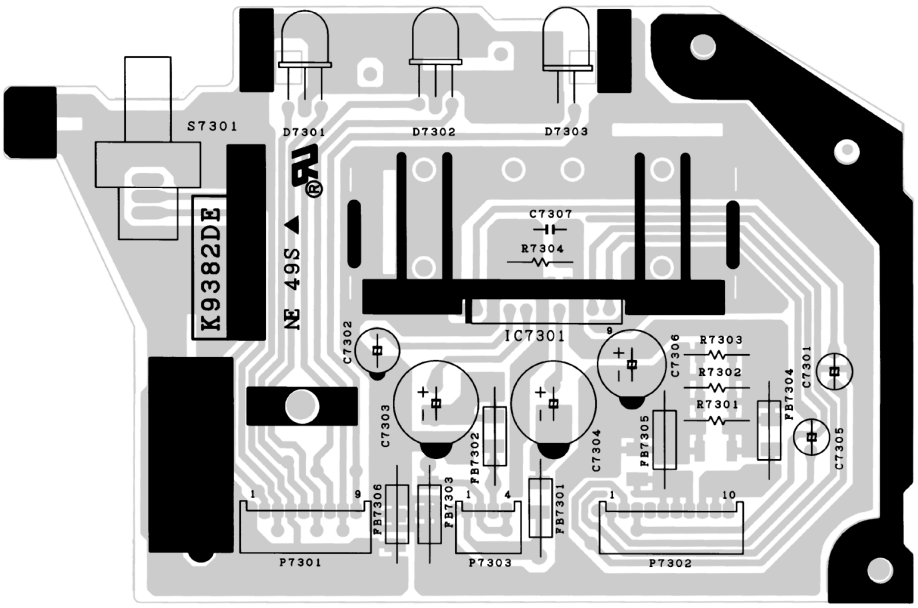
Power/Ballast Unit-2 (Component Side)



Power/Ballast Unit-1 (Component Side)



LED Unit (Wiring Side)



LED Unit (Component Side)

PARTS LIST

PARTS REPLACEMENT

Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

Les pieces marquées "⚠" sont importantes pour maintenir la sécurité de l'appareil. Ne remplacer ces pieces que par des pieces dont le numéro est spécifié pour maintenir la sécurité et protéger le bon fonctinnement de l'appareil.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION
5. CODE
6. QUANTITY

in **USA**: Contact your nearest SHARP Parts Distributor.
For location of SHARP Parts Distributor,
Please call Toll-Free; 1-800-BE-SHARP

in **CANADA**: Contact SHARP Electronics of Canada Limited
Phone (416) 890-2100.

MARK ★: SPARE PARTS-DELIVERY SECTION

Ref. No.	Part No.	★	Description	Code

LCD PANELS

NOTE: THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.

	RLCDP0042CEZZ	J	LCD Module Unit, Red	CY
	RLCDP0043CEZZ	J	LCD Module Unit, Green	CY
	RLCDP0044CEZZ	J	LCD Module Unit, Blue	CY

PRINTED WIRING BOARD ASSEMBLIES (NOT REPLACEMENT ITEM)

	DUNTK9754DE01	–	Signal Unit	—
	DUNTK9756DE01	–	Output Unit	—
	DUNTK9757DE01	–	Input Unit	—
	DUNTK9755DE01	–	Infrared R/C Receiver Unit	—
	DUNTK9382DE01	–	LED Unit	—
	RUNTK0630CEZZ	–	AC-SW Unit	—
	CDENC0273CE01	–	Power/Ballast Unit	—

Ref. No.	Part No.	★	Description	Code

DUNTK9754DE01
SIGNAL UNIT

INTEGRATED CIRCUITS

IC3001	VHiPD64081B-1	J	PD64081B	BD
IC3002	RH-iX3084CEZZ	J	I.C.	AS
IC3003	VHiMC14577F-1	J	MC14577F	AG
IC3005	VHiPST600iM-1	J	PST600iM	AE
IC3006	VHiTC7S08F/-1	J	TC7S08F	AC
IC3007	VHiM40C568H-1	J	M40C568H	AQ
IC3008	RH-iX3021CEZZ	J	I.C.	AR
IC3011	VHiNJM311M/-1	J	NJM311M	AF
IC3013	VHiMC14577F-1	J	MC14577F	AG
IC3014	RH-iX2204CEZZ	J	PQ12TZ11	AG
IC3015	VHiTC4S66F/-1	J	TC4S66F	AD
IC3016	VHiTDA8854H-2	J	TDA8854H	BD
IC3017	VHiNJM2060V-1	J	NJM2060V	AF
IC3018	VHiTDA4565/-1	J	TDA4565	AN
IC3019	VHiTA8814N/-1	J	TA8814N	AV
IC3020	VHiTHC4538T-1	J	THC4538T	AL
IC3021	VHiTHC4538T-1	J	THC4538T	AL
IC3022	VHiPQ20VZ11-1	J	PQ20VZ11	AH
IC3501	VHiLM1204V/-1	J	LM1204V	AY
IC3502	VHiM62352GP-1	J	M62352GP	AQ
IC3503	VHiiCS1523M-1	J	ICS1523M	BC
IC3504	VHiCXD2303Q-1	J	CXD2303Q	BD
IC3505	RH-iX2204CEZZ	J	PQ12TZ11	AG
IC3506	VHiLM4040C/-1	J	LM4040C	AM
IC3507	RH-iX3222CEZZ	J	I.C.	BT
IC3508	RH-iX3262CEZZ	J	I.C.	AZ
IC3509	VHiTC4W66F/-1	J	TC4W66F	AE
IC3510	VHiM52347FP-1	J	I.C.	AP
IC3511	VHiM52347FP-1	J	I.C.	AP
IC3512	VHiMC14053F-1	J	MC14053F	AD
IC3513	VHiMC14053F-1	J	MC14053F	AD
IC3514	VHiTHC221AF-1	J	THC221AF	AG
IC3515	RH-iX1424CEZZ	J	TC74HC02AF	AC
IC3516	VHiMC14577F-1	J	MC14577F	AG
IC3801	VHiBA7046F/-1	J	BA7046F	AF
IC3802	VHiSNHC00NS-1	J	SNHC00NS	AC
IC3803	VHiTHC221AF-1	J	THC221AF	AG
IC3804	VHiMC14053F-1	J	MC14053F	AD
IC4001	VHiPQ09TZ11-1	J	PQ09TZ11	AH
IC4002	VHiPQ05TZ11-1	J	PQ05TZ11	AH
IC4003	VHiPQ05TZ11-1	J	PQ05TZ11	AH
IC4005	VHiMC14577F-1	J	MC14577F	AG
IC4006	VHiiCS1523M-1	J	ICS1523M	BC
IC4007	VHiCXD2303Q-1	J	CXD2303Q	BD
IC4008	RH-iX3126CEZZ	J	I.C.	BL
IC4009	RH-iX3286CEN1	J	I.C.	AY
IC4012	VHiPST600iM-1	J	PST600iM	AE
IC4013	RH-iX1946CEZZ	J	74F74SJ	AD
IC4014	RH-iX3156CEZZ	J	I.C.	AX
IC4015	RH-iX3156CEZZ	J	I.C.	AX
IC4016	VHiMB40978F-1	J	MB40978F	AX
IC4017	VHiMC14053F-1	J	MC14053F	AD

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Ref. No.	Part No.	★	Description	Code
IC4018	VHiMC14053F-1	J	MC14053F	AD
	TRANSISTORS			
Q3001	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q3002	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q3003	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q3004	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q3005	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q3006	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q3007	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q3008	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q3009	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q3010	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q3011	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q3012	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q3013	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q3014	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q3015	VSDTC144EK/-1	J	DTC144EK	AB
Q3016	VSDTC144EK/-1	J	DTC144EK	AB
Q3017	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q3018	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q3019	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q3020	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q3021	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q3022	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q3023	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q3024	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q3025	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q3026	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q3027	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q3028	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q3029	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q3031	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q3032	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q3033	VS2SC2411KR-1	J	2SC2411KR	AC
Q3034	VS2SC2411KR-1	J	2SC2411KR	AC
Q3035	VS2SC2411KR-1	J	2SC2411KR	AC
Q3036	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q3037	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q3039	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q3040	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q3041	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q3042	VSDTC144EK/-1	J	DTC144EK	AB
Q3043	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q3044	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q3045	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q3501	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q3502	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q3503	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q3506	VSDTC144EK/-1	J	DTC144EK	AB
Q3509	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q3510	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q3511	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q3512	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q3513	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q3514	VSDTC144EK/-1	J	DTC144EK	AB
Q3801	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q3802	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q3803	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q3804	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q3805	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q3806	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q3807	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q3808	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q4001	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q4002	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q4003	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q4007	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q4008	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q4009	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q4010	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q4011	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q4012	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q4013	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q4014	VS2SA1037KQ-1	J	2SA1037KQ	AA
	DIODES			
D3001	VHD1SS355//-1	J	Diode	AB
D3002	VHD1SS355//-1	J	Diode	AB
D3003	VHD1SS355//-1	J	Diode	AB
D3004	VHD1SS355//-1	J	Diode	AB
D3005	VHDDAN202K/-1	J	Diode	AB
D3006	VHDDAN202K/-1	J	Diode	AB
D3007	VHDDAN202K/-1	J	Diode	AB
D3008	VHDMA152WA/-1	J	Diode	AA
D3009	VHDDAN202K/-1	J	Diode	AB
D3010	VHDiMN10///-1	J	Diode	AB
D3011	RH-EX0531CEZZ	J	Zener Diode	AB
D3501	VHDDAN202K/-1	J	Diode	AB
D4001	VHDDAN202K/-1	J	Diode	AB
D4002	VHDDAN202K/-1	J	Diode	AB
D4003	VHDDAN202K/-1	J	Diode	AB
D4004	RH-EX0703CEZZ	J	Zener Diode	AC
D4005	RH-EX0703CEZZ	J	Zener Diode	AC
D4006	RH-EX0703CEZZ	J	Zener Diode	AC
D4007	RH-EX0703CEZZ	J	Zener Diode	AC
	PACKAGED CIRCUITS			
X3001	RCRSB0258CEZZ	J	Crystal	AG
X3004	RCRSZ0068CEZZ	J	Crystal	AQ
X3006	RCRSB0253CEZZ	J	Crystal	AL
	COILS AND FILTERS			
CF3001	RFiLC0039TAZZ	J	Filter	AF
FL3005	RFiLN0079GEZZ	J	Filter	AC
FL3006	RFiLN0079GEZZ	J	Filter	AC
FL3007	RCiLF0306CEZZ	J	Coil	AH
FL3008	RCiLV0108GEZZ	J	Coil	AG
FL4003	RFiLN0097GEZZ	J	Filter	AF

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Ref. No.	Part No.	★	Description	Code
FL4004	RFiLN0097GEZZ	J	Filter	AF
L3001	VP-1M220J2R9N	J	Peaking 22µH	AC
L3002	VP-1M220J2R9N	J	Peaking 22µH	AC
L3003	VP-1M3R9J1R0N	J	Peaking 3.9µH	AC
L3004	VP-1M4R7J1R2N	J	Peaking 4.7µH	AB
L3010	VP-1M471J310N	J	Peaking 470µH	AC
L3011	VP-1M471J310N	J	Peaking 470µH	AC
L4001	VP-1MR47KR38N	J	Peaking 0.47µH	AC
L4002	VP-1MR47KR38N	J	Peaking 0.47µH	AC
L4003	VP-1MR47KR38N	J	Peaking 0.47µH	AC
L4004	VP-1M4R7J1R2N	J	Peaking 4.7µH	AB
L4005	VP-1M4R7J1R2N	J	Peaking 4.7µH	AB
L4006	VP-1M4R7J1R2N	J	Peaking 4.7µH	AB
T3001	RCiLB0173CEZZ	J	Oscillation Coil	AK

CAPACITORS

C3001	VCCCCY1EH102J	J	1000p	25V	Ceramic	AB
C3002	VCCCCY1EH102J	J	1000p	25V	Ceramic	AB
C3003	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C3004	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3005	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3006	VCCCCY1HH270J	J	27p	50V	Ceramic	AA
C3007	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C3008	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3009	VCCCCY1HH120J	J	12p	50V	Ceramic	AA
C3010	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C3011	VCCCCY1HH270J	J	27p	50V	Ceramic	AA
C3012	VCCCCY1HH120J	J	12p	50V	Ceramic	AA
C3013	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C3014	VCCCCY1HH270J	J	27p	50V	Ceramic	AA
C3017	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3018	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3019	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3020	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C3021	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3022	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3023	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3024	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3025	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3026	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3027	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3028	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3029	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C3030	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C3031	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3032	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C3033	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3034	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3036	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3037	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C3038	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C3039	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3040	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3041	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3042	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3043	VCCCCY1HH391J	J	390p	50V	Ceramic	AA
C3044	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3045	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C3046	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3048	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3049	VCEAPF1HW474M	J	0.47	50V	Electrolytic	AB
C3050	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3051	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3052	VCCCCY1HH471J	J	470p	50V	Ceramic	AA
C3053	VCEAPF1HW334M	J	0.33	50V	Electrolytic	AB
C3054	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3055	VCE9PF1HW105M	J	1.0	50V	Elect.(N.P)	AC
C3056	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C3057	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C3058	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3059	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3060	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C3061	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3062	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C3063	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3064	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3065	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3066	VCCCCY1EH561J	J	560p	25V	Ceramic	AA
C3067	VCCCCY1EH561J	J	560p	25V	Ceramic	AA
C3068	VCEAPF1HW105M	J	1.0	50V	Electrolytic	AB
C3070	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C3071	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C3073	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3074	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3075	VCEAPF1HW225M	J	2.2	50V	Electrolytic	AB
C3076	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C3077	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3078	VCCCCY1HH680J	J	68p	50V	Ceramic	AA
C3079	VCE9PF1HW105M	J	1.0	50V	Elect.(N.P)	AC
C3080	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C3081	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3082	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3083	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3084	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3085	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3086	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3087	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C3088	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C3089	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C3090	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C3091	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C3092	VCCCCY1HH4R0C	J	4.0p	50V	Ceramic	AA
C3093	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3094	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3095	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C3096	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C3097	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C3098	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C3099	VCCCCY1HH330J	J	33p	50V	Ceramic	AA

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Ref. No.	Part No.	★	Description			Code
C3100	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C3101	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C3104	VCEAPF1CW226M	J	22	16V	Electrolytic	AB
C3105	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3128	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C3129	VCEAPX1VW476M	J	47	35V	Electrolytic	AD
C3130	VCE9PF1CW106M	J	10	16V	Elect.(N.P)	AC
C3131	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C3133	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C3134	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3135	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3136	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3137	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3138	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3139	VCCCCY1EH102J	J	1000p	25V	Ceramic	AB
C3140	VCCCCY1EH102J	J	1000p	25V	Ceramic	AB
C3141	VCCCCY1EH102J	J	1000p	25V	Ceramic	AB
C3142	VCCCCY1EH102J	J	1000p	25V	Ceramic	AB
C3143	RC-EZ0569CEZZ	J	10	10V	Electrolytic	AF
C3144	VCEAPF1HW105M	J	1.0	50V	Electrolytic	AB
C3145	VCFYEC1CM102J	J	1000p	16V	Mylar	AC
C3146	VCFRED1HM222J	J	2200p	50V	Mylar	AC
C3147	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3148	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3149	RC-EZ0569CEZZ	J	10	10V	Electrolytic	AF
C3150	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3151	VCFRED1HM332J	J	3300p	50V	Mylar	AD
C3152	VCCCCY1HH180J	J	18p	50V	Ceramic	AA
C3153	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3154	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3155	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3156	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3157	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3158	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3159	VCE9PF1CW106M	J	10	16V	Elect.(N.P)	AC
C3160	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3161	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3162	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3163	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C3164	VCFYEC1CM274J	J	0.27	16V	Mylar	AE
C3165	VCKYCY1CF224Z	J	0.22	16V	Ceramic	AA
C3166	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3167	RC-EZ0569CEZZ	J	10	10V	Electrolytic	AF
C3168	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3169	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3170	VCEAPF1HW225M	J	2.2	50V	Electrolytic	AB
C3171	VCFYEC1CM223J	J	0.022	16V	Mylar	AC
C3172	VCFYEC1CM274J	J	0.27	16V	Mylar	AE
C3173	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3174	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3175	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C3176	VCE9PF1HW105M	J	1.0	50V	Elect.(N.P)	AC
C3177	VCEAPF1HW225M	J	2.2	50V	Electrolytic	AB
C3178	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3179	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3180	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3181	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3182	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3183	VCE9PF1HW105M	J	1.0	50V	Elect.(N.P)	AC
C3184	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3185	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3186	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3187	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3188	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3189	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3190	VCFYEC1CM104J	J	0.1	16V	Mylar	AD
C3191	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3192	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3193	VCE9PF1HW105M	J	1.0	50V	Elect.(N.P)	AC
C3196	VCEAPF1CW226M	J	22	16V	Electrolytic	AB
C3197	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3198	VCCCCY1HH470J	J	47p	50V	Ceramic	AA
C3199	VCCCCY1HH470J	J	47p	50V	Ceramic	AA
C3200	VCCCCY1HH221J	J	220p	50V	Ceramic	AA
C3201	VCCCCY1HH221J	J	220p	50V	Ceramic	AA
C3202	VCCCCY1HH221J	J	220p	50V	Ceramic	AA
C3203	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3204	VCEAPF1CW226M	J	22	16V	Electrolytic	AB
C3205	VCCCCY1HH180J	J	18p	50V	Ceramic	AA
C3206	VCFYEC1CM683J	J	0.068	16V	Mylar	AC
C3208	VCEAPF1HW105M	J	1.0	50V	Electrolytic	AB
C3209	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3210	RC-EZ0569CEZZ	J	10	10V	Electrolytic	AF
C3211	VCCCCY1EH561J	J	560p	25V	Ceramic	AA
C3501	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C3502	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3503	VCKYCY1EB223K	J	0.022	25V	Ceramic	AA
C3504	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3505	VCKYCY1EB223K	J	0.022	25V	Ceramic	AA
C3506	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3507	VCKYCY1EB223K	J	0.022	25V	Ceramic	AA
C3508	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3509	VCKYCY1EB223K	J	0.022	25V	Ceramic	AA
C3510	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3511	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C3512	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3513	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3514	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3515	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3516	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3517	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3518	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C3519	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3520	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C3521	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3522	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C3523	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C3524	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C3525	VCCCCY1HH151J	J	150p	50V	Ceramic	AA

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Ref. No.	Part No.	★			Description	Code
C3526	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3527	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C3528	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3529	VCEAPF0JW226M	J	22	6.3V	Electrolytic	AB
C3530	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3531	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C3532	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3533	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3534	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3535	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3536	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3537	VCEAPF1CW226M	J	22	16V	Electrolytic	AB
C3541	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3542	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3543	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C3544	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3545	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3546	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3547	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3548	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3549	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3550	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3551	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3552	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3553	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3554	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C3555	VCEAPF1EW336M	J	33	25V	Electrolytic	AB
C3556	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3557	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3558	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3559	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3561	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3563	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3564	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3565	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3566	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3567	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3568	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3570	VCCCCY1HH221J	J	220p	50V	Ceramic	AA
C3571	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3572	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C3573	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C3574	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C3575	VCEAPF1EW475M	J	4.7	25V	Electrolytic	AB
C3576	VCFYEC1CM683J	J	0.068	16V	Mylar	AC
C3577	VCEAPF1EW475M	J	4.7	25V	Electrolytic	AB
C3578	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C3582	VCCCCY1HH221J	J	220p	50V	Ceramic	AA
C3583	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3584	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C3585	VCCCCY1HH221J	J	220p	50V	Ceramic	AA
C3586	VCEAPF1EW475M	J	4.7	25V	Electrolytic	AB
C3587	VCEAPF1EW475M	J	4.7	25V	Electrolytic	AB
C3588	VCEAPF1EW475M	J	4.7	25V	Electrolytic	AB
C3589	VCEAPF1EW475M	J	4.7	25V	Electrolytic	AB
C3590	VCE9PF1HW105M	J	1.0	50V	Elect.(N.P)	AC
C3591	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3592	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3597	VCCCCY1EH561J	J	560p	25V	Ceramic	AA
C3598	VCCCCY1EH561J	J	560p	25V	Ceramic	AA
C3599	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3601	VCCCCY1HH150J	J	15p	50V	Ceramic	AA
C3602	VCCCCY1HH150J	J	15p	50V	Ceramic	AA
C3603	VCCCCY1HH150J	J	15p	50V	Ceramic	AA
C3604	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3605	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3606	VCEAPF1HW105M	J	1.0	50V	Electrolytic	AB
C3607	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3608	VCEAPF1HW105M	J	1.0	50V	Electrolytic	AB
C3609	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3610	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3611	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C3616	VCEAPF1HW105M	J	1.0	50V	Electrolytic	AB
C3617	VCEAPF1HW105M	J	1.0	50V	Electrolytic	AB
C3801	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C3802	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C3803	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C3804	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C3805	VCKYCY1AF105Z	J	1.0	10V	Ceramic	AC
C3806	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3807	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3808	VCFYEC1CM183J	J	0.018	16V	Mylar	AC
C3809	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3810	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3811	VCCCCY1HH221J	J	220p	50V	Ceramic	AA
C3812	VCCCCY1EH821J	J	820p	25V	Ceramic	AB
C3813	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3814	VCEAPX0JW227M	J	220	6.3V	Electrolytic	AD
C4001	VCEAPX1VW476M	J	47	35V	Electrolytic	AD
C4002	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C4003	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C4004	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C4005	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C4006	VCEAPF1HW105M	J	1.0	50V	Electrolytic	AB
C4012	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4013	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4014	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4015	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4016	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4017	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C4018	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C4019	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C4020	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C4021	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C4022	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4023	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4024	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4025	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4026	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA

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SIGNAL UNIT (Continued)

Ref. No.	Part No.	★			Description	Code
C4027	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4028	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4029	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4030	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4031	VCEAPF1HW105M	J	1.0	50V	Electrolytic	AB
C4032	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C4033	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C4034	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C4035	VCEAPF1HW105M	J	1.0	50V	Electrolytic	AB
C4036	VCEAPF1HW105M	J	1.0	50V	Electrolytic	AB
C4037	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C4047	VCCCCY1HH5R0C	J	5.0p	50V	Ceramic	AA
C4052	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C4053	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4054	VCEAPF0JW226M	J	22	6.3V	Electrolytic	AB
C4055	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4056	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4057	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4058	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C4059	VCEAPF1EW336M	J	33	25V	Electrolytic	AB
C4060	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4061	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4062	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4063	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4064	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4065	VCEAPF0JW226M	J	22	6.3V	Electrolytic	AB
C4066	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4067	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C4068	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4069	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4070	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4071	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C4072	VCEAPF1EW475M	J	4.7	25V	Electrolytic	AB
C4076	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4077	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C4079	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4080	VCEAPF1HW474M	J	0.47	50V	Electrolytic	AB
C4081	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4082	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C4083	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4084	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4085	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4086	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4087	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4088	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C4089	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4091	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4092	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4093	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4094	VCEAPF1HW105M	J	1.0	50V	Electrolytic	AB
C4095	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C4096	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C4097	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4098	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4099	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4102	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C4104	VCCCCY1HH3R0C	J	3.0p	50V	Ceramic	AA
C4105	VCCCCY1HH3R0C	J	3.0p	50V	Ceramic	AA
C4106	VCCCCY1HH3R0C	J	3.0p	50V	Ceramic	AA
C4107	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C4108	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4109	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4110	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4111	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4112	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4113	VCEAPF1AW476M	J	47	10V	Electrolytic	AB
C4114	VCEAPF1AW476M	J	47	10V	Electrolytic	AB
C4115	VCEAPF1AW476M	J	47	10V	Electrolytic	AB
C4116	VCCCCY1HH2R0C	J	2.0p	50V	Ceramic	AA
C4117	VCCCCY1HH1R0C	J	1.0p	50V	Ceramic	AA
C4118	VCCCCY1HH2R0C	J	2.0p	50V	Ceramic	AA
C4119	VCCCCY1HH1R0C	J	1.0p	50V	Ceramic	AA
C4120	VCCCCY1HH2R0C	J	2.0p	50V	Ceramic	AA
C4121	VCCCCY1HH1R0C	J	1.0p	50V	Ceramic	AA

RESISTORS

R3001	VRS-CY1JF153J	J	15k	1/16W	Metal Oxide	AA
R3002	VRS-CY1JF153J	J	15k	1/16W	Metal Oxide	AA
R3003	VRS-CY1JF683J	J	68k	1/16W	Metal Oxide	AA
R3004	VRS-CY1JF683J	J	68k	1/16W	Metal Oxide	AA
R3005	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3006	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3007	VRS-CY1JF911J	J	910	1/16W	Metal Oxide	AA
R3008	VRS-CY1JF561J	J	560	1/16W	Metal Oxide	AA
R3009	VRS-CY1JF132J	J	1.3k	1/16W	Metal Oxide	AA
R3010	VRS-CY1JF911J	J	910	1/16W	Metal Oxide	AA
R3011	VRS-CY1JF561J	J	560	1/16W	Metal Oxide	AA
R3012	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3013	VRS-CY1JF391J	J	390	1/16W	Metal Oxide	AA
R3014	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R3015	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R3016	VRS-CY1JF561J	J	560	1/16W	Metal Oxide	AA
R3017	VRS-CY1JF122J	J	1.2k	1/16W	Metal Oxide	AA
R3018	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3019	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3020	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R3021	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3022	VRS-CY1JF911J	J	910	1/16W	Metal Oxide	AA
R3023	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3024	VRS-CY1JF182J	J	1.8k	1/16W	Metal Oxide	AA
R3025	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R3026	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3027	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R3028	VRS-CY1JF152J	J	1.5k	1/16W	Metal Oxide	AA
R3029	VRS-CY1JF911J	J	910	1/16W	Metal Oxide	AA
R3030	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R3031	VRS-CY1JF000J	J	00	1/16W	Metal Oxide	AA
R3033	VRS-CY1JF222F	J	2.2k	1/16W	Metal Oxide	AA
R3034	VRS-CY1JF222F	J	2.2k	1/16W	Metal Oxide	AA

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SIGNAL UNIT (Continued)

Ref. No.	Part No.	★		Description	Code
R3035	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3036	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R3037	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R3038	VRS-CY1JF221J	J	220	1/16W Metal Oxide	AA
R3039	VRS-CY1JF473J	J	47k	1/16W Metal Oxide	AA
R3040	VRS-CY1JF224J	J	220k	1/16W Metal Oxide	AA
R3041	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3042	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R3043	VRS-CY1JF472J	J	4.7k	1/16W Metal Oxide	AA
R3044	VRS-CY1JF471J	J	470	1/16W Metal Oxide	AA
R3045	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R3047	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3048	VRS-CB1JF101J	J	100	1/16W Metal Oxide	AA
R3049	VRS-CB1JF101J	J	100	1/16W Metal Oxide	AA
R3050	VRS-CY1JF182J	J	1.8k	1/16W Metal Oxide	AA
R3051	VRS-CY1JF182J	J	1.8k	1/16W Metal Oxide	AA
R3053	VRS-CY1JF271J	J	270	1/16W Metal Oxide	AA
R3054	VRS-CY1JF271J	J	270	1/16W Metal Oxide	AA
R3055	VRS-CY1JF333J	J	33k	1/16W Metal Oxide	AA
R3056	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3057	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3058	VRS-CY1JF471J	J	470	1/16W Metal Oxide	AA
R3059	VRS-CY1JF471J	J	470	1/16W Metal Oxide	AA
R3060	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R3061	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R3062	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R3063	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R3064	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3065	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R3066	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R3067	VRS-CB1JF101J	J	100	1/16W Metal Oxide	AA
R3068	VRS-CB1JF101J	J	100	1/16W Metal Oxide	AA
R3069	VRS-CB1JF101J	J	100	1/16W Metal Oxide	AA
R3070	VRS-CB1JF101J	J	100	1/16W Metal Oxide	AA
R3071	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R3072	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3073	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3074	VRS-CY1JF472J	J	4.7k	1/16W Metal Oxide	AA
R3075	VRS-CY1JF472J	J	4.7k	1/16W Metal Oxide	AA
R3076	VRS-CY1JF183J	J	18k	1/16W Metal Oxide	AA
R3077	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3078	VRS-CY1JF152J	J	1.5k	1/16W Metal Oxide	AA
R3079	VRS-CY1JF152J	J	1.5k	1/16W Metal Oxide	AA
R3080	VRS-CY1JF153J	J	15k	1/16W Metal Oxide	AA
R3081	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3082	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R3083	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3084	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R3085	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3086	VRS-CB1JF101J	J	100	1/16W Metal Oxide	AA
R3089	VRS-CB1JF101J	J	100	1/16W Metal Oxide	AA
R3090	VRS-CY1JF682J	J	6.8k	1/16W Metal Oxide	AA
R3091	VRS-CY1JF562J	J	5.6k	1/16W Metal Oxide	AA
R3092	VRS-CY1JF331J	J	330	1/16W Metal Oxide	AA
R3093	VRS-CY1JF473J	J	47k	1/16W Metal Oxide	AA
R3094	VRS-CY1JF681J	J	680	1/16W Metal Oxide	AA
R3095	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3096	VRS-CY1JF181J	J	180	1/16W Metal Oxide	AA
R3097	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R3098	VRS-CY1JF152J	J	1.5k	1/16W Metal Oxide	AA
R3099	VRS-CY1JF681J	J	680	1/16W Metal Oxide	AA
R3100	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R3101	VRS-CY1JF152J	J	1.5k	1/16W Metal Oxide	AA
R3102	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3103	VRS-CY1JF561J	J	560	1/16W Metal Oxide	AA
R3104	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3105	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3106	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3107	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R3109	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3111	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3114	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R3115	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R3116	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3117	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R3118	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3120	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3121	VRS-CY1JF105J	J	1.0M	1/16W Metal Oxide	AA
R3122	VRS-CY1JF562J	J	5.6k	1/16W Metal Oxide	AA
R3123	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3124	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3125	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3126	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3127	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3128	VRS-CY1JF821J	J	820	1/16W Metal Oxide	AA
R3129	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R3130	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R3131	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R3132	VRS-CY1JF152J	J	1.5k	1/16W Metal Oxide	AA
R3133	VRS-CY1JF472J	J	4.7k	1/16W Metal Oxide	AA
R3135	VRS-CY1JF272J	J	2.7k	1/16W Metal Oxide	AA
R3136	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R3137	VRS-CY1JF152J	J	1.5k	1/16W Metal Oxide	AA
R3146	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R3148	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R3150	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3203	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R3204	VRS-TX2HF5R6J	J	5.6	1/2W Metal Oxide	AA
R3205	VRS-TX2HF6R8J	J	6.8	1/2W Metal Oxide	AA
R3206	VRS-CY1JF392J	J	3.9k	1/16W Metal Oxide	AA
R3208	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3209	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R3210	VRS-CY1JF104J	J	100k	1/16W Metal Oxide	AA
R3211	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R3212	VRS-CY1JF223J	J	22k	1/16W Metal Oxide	AA
R3213	VRS-CY1JF223J	J	22k	1/16W Metal Oxide	AA
R3214	VRS-CY1JF472J	J	4.7k	1/16W Metal Oxide	AA
R3215	VRS-CY1JF681J	J	680	1/16W Metal Oxide	AA
R3216	VRS-CY1JF152J	J	1.5k	1/16W Metal Oxide	AA

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SIGNAL UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
R3217	VRS-CY1JF152J	J	1.5k 1/16W Metal Oxide	AA
R3218	VRS-CY1JF273J	J	27k 1/16W Metal Oxide	AA
R3219	VRS-TX2HF5R6J	J	5.6 1/2W Metal Oxide	AA
R3220	VRS-CY1JF273J	J	27k 1/16W Metal Oxide	AA
R3221	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3222	VRS-CY1JF331J	J	330 1/16W Metal Oxide	AA
R3223	VRS-CY1JF750J	J	75 1/16W Metal Oxide	AA
R3224	VRS-CY1JF471J	J	470 1/16W Metal Oxide	AA
R3225	VRS-CY1JF562J	J	5.6k 1/16W Metal Oxide	AA
R3226	VRS-CY1JF471J	J	470 1/16W Metal Oxide	AA
R3227	VRS-CY1JF822J	J	8.2k 1/16W Metal Oxide	AA
R3228	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3229	VRN-CY1JF133D	J	13k 1/16W Metal Film	AB
R3230	VRN-CY1JF752D	J	7.5k 1/16W Metal Film	AA
R3231	VRN-CY1JF562D	J	5.6k 1/16W Metal Film	AB
R3232	VRN-CY1JF123D	J	12k 1/16W Metal Film	AB
R3233	VRS-CY1JF182J	J	1.8k 1/16W Metal Oxide	AA
R3234	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3235	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3236	VRS-TX2HF5R6J	J	5.6 1/2W Metal Oxide	AA
R3237	VRS-TX2HF5R6J	J	5.6 1/2W Metal Oxide	AA
R3238	VRN-CY1JF562D	J	5.6k 1/16W Metal Film	AB
R3239	VRN-CY1JF102D	J	1.0k 1/16W Metal Film	AB
R3244	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3245	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3246	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3247	VRS-CY1JF000J	J	00 1/16W Metal Oxide	AA
R3248	VRS-CY1JF152J	J	1.5k 1/16W Metal Oxide	AA
R3249	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3250	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3251	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3252	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R3253	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3254	VRS-CY1JF123J	J	12k 1/16W Metal Oxide	AA
R3255	VRS-CY1JF000J	J	00 1/16W Metal Oxide	AA
R3256	VRS-TX2HF4R7J	J	4.7 1/2W Metal Oxide	AB
R3257	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R3258	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3259	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3260	VRS-CY1JF682J	J	6.8k 1/16W Metal Oxide	AA
R3261	VRS-CY1JF392J	J	3.9k 1/16W Metal Oxide	AA
R3262	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3263	VRS-CY1JF682J	J	6.8k 1/16W Metal Oxide	AA
R3264	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3265	VRS-CY1JF333J	J	33k 1/16W Metal Oxide	AA
R3267	VRS-TX2HF4R7J	J	4.7 1/2W Metal Oxide	AB
R3268	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3269	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3270	VRS-CY1JF393J	J	39k 1/16W Metal Oxide	AA
R3271	VRS-CY1JF564J	J	560k 1/16W Metal Oxide	AA
R3272	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3273	VRS-CY1JF333J	J	33k 1/16W Metal Oxide	AA
R3274	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R3275	VRS-CY1JF221J	J	220 1/16W Metal Oxide	AA
R3276	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R3277	VRS-CY1JF224J	J	220k 1/16W Metal Oxide	AA
R3278	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R3279	VRS-CY1JF273J	J	27k 1/16W Metal Oxide	AA
R3280	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3281	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3282	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3283	VRS-CY1JF683J	J	68k 1/16W Metal Oxide	AA
R3284	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3285	VRS-CY1JF223J	J	22k 1/16W Metal Oxide	AA
R3286	VRS-CY1JF682J	J	6.8k 1/16W Metal Oxide	AA
R3287	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3288	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3289	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3290	VRS-CY1JF223J	J	22k 1/16W Metal Oxide	AA
R3291	VRS-CY1JF273J	J	27k 1/16W Metal Oxide	AA
R3292	VRS-CY1JF563J	J	56k 1/16W Metal Oxide	AA
R3294	VRS-CY1JF332J	J	3.3k 1/16W Metal Oxide	AA
R3295	VRS-CY1JF822J	J	8.2k 1/16W Metal Oxide	AA
R3296	VRS-CY1JF000J	J	00 1/16W Metal Oxide	AA
R3297	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R3298	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R3299	VRS-CY1JF822J	J	8.2k 1/16W Metal Oxide	AA
R3300	VRS-CY1JF822J	J	8.2k 1/16W Metal Oxide	AA
R3301	VRS-CY1JF153J	J	15k 1/16W Metal Oxide	AA
R3302	VRS-CY1JF153J	J	15k 1/16W Metal Oxide	AA
R3303	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3304	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3305	VRS-TV1JD222J	J	2.2k 1/16W Metal Oxide	AA
R3306	VRS-CY1JF183J	J	18k 1/16W Metal Oxide	AA
R3307	VRS-CY1JF681J	J	680 1/16W Metal Oxide	AA
R3310	VRS-CY1JF000J	J	00 1/16W Metal Oxide	AA
R3312	VRS-TX2HF5R6J	J	5.6 1/2W Metal Oxide	AA
R3313	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3314	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3315	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3316	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3317	VRS-CY1JF682J	J	6.8k 1/16W Metal Oxide	AA
R3318	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R3319	VRS-CY1JF332J	J	3.3k 1/16W Metal Oxide	AA
R3320	VRS-TX2HF5R6J	J	5.6 1/2W Metal Oxide	AA
R3321	VRS-CY1JF000J	J	00 1/16W Metal Oxide	AA
R3322	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3330	VRS-CY1JF221J	J	220 1/16W Metal Oxide	AA
R3349	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3350	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3351	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3352	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3353	VRS-CY1JF223J	J	22k 1/16W Metal Oxide	AA
R3354	VRS-CY1JF822J	J	8.2k 1/16W Metal Oxide	AA
R3355	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R3356	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R3357	VRS-CY1JF123J	J	12k 1/16W Metal Oxide	AA
R3358	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R3359	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA

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Ref. No.	Part No.	★		Description	Code
R3360	VRS-CY1JF472J	J	4.7k	1/16W Metal Oxide	AA
R3361	VRS-CY1JF681J	J	680	1/16W Metal Oxide	AA
R3362	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3363	VRS-CY1JF472J	J	4.7k	1/16W Metal Oxide	AA
R3364	VRS-CY1JF681J	J	680	1/16W Metal Oxide	AA
R3365	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3366	VRS-CY1JF472J	J	4.7k	1/16W Metal Oxide	AA
R3367	VRS-CY1JF681J	J	680	1/16W Metal Oxide	AA
R3501	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3502	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3503	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3504	VRS-CY1JF562J	J	5.6k	1/16W Metal Oxide	AA
R3505	VRS-CY1JF562J	J	5.6k	1/16W Metal Oxide	AA
R3506	VRS-CY1JF152J	J	1.5k	1/16W Metal Oxide	AA
R3507	VRS-CY1JF272J	J	2.7k	1/16W Metal Oxide	AA
R3508	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R3509	VRS-CY1JF331J	J	330	1/16W Metal Oxide	AA
R3510	VRS-CY1JF331J	J	330	1/16W Metal Oxide	AA
R3511	VRS-CY1JF331J	J	330	1/16W Metal Oxide	AA
R3512	VRS-CY1JF392J	J	3.9k	1/16W Metal Oxide	AA
R3513	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3514	VRS-CY1JF392J	J	3.9k	1/16W Metal Oxide	AA
R3515	VRS-CY1JF392J	J	3.9k	1/16W Metal Oxide	AA
R3516	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3518	VRS-CY1JF331J	J	330	1/16W Metal Oxide	AA
R3519	VRS-CY1JF392J	J	3.9k	1/16W Metal Oxide	AA
R3520	VRS-CY1JF681J	J	680	1/16W Metal Oxide	AA
R3521	VRS-CY1JF331J	J	330	1/16W Metal Oxide	AA
R3522	VRS-CY1JF392J	J	3.9k	1/16W Metal Oxide	AA
R3523	VRS-CY1JF681J	J	680	1/16W Metal Oxide	AA
R3524	VRS-CY1JF331J	J	330	1/16W Metal Oxide	AA
R3525	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3526	VRS-CY1JF392J	J	3.9k	1/16W Metal Oxide	AA
R3527	VRS-CY1JF681J	J	680	1/16W Metal Oxide	AA
R3528	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R3529	VRS-CY1JF392J	J	3.9k	1/16W Metal Oxide	AA
R3530	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R3531	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R3532	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3533	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3534	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3535	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3536	VRS-TX2HF2R2J	J	2.2	1/2W Metal Oxide	AB
R3537	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3538	VRS-CY1JF392J	J	3.9k	1/16W Metal Oxide	AA
R3539	VRS-TX2HF2R2J	J	2.2	1/2W Metal Oxide	AB
R3540	VRS-CY1JF470J	J	47	1/16W Metal Oxide	AA
R3541	VRS-CY1JF470J	J	47	1/16W Metal Oxide	AA
R3544	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R3545	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R3546	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3547	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R3548	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3549	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R3551	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3552	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R3553	VRS-CY1JF560J	J	56	1/16W Metal Oxide	AA
R3555	VRS-CB1JF560J	J	56	1/16W Metal Oxide	AD
R3556	VRS-CB1JF560J	J	56	1/16W Metal Oxide	AD
R3557	VRS-CB1JF560J	J	56	1/16W Metal Oxide	AD
R3558	VRS-CB1JF560J	J	56	1/16W Metal Oxide	AD
R3563	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3567	VRS-CB1JF560J	J	56	1/16W Metal Oxide	AD
R3568	VRS-CB1JF560J	J	56	1/16W Metal Oxide	AD
R3571	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R3573	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R3574	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R3576	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R3580	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R3581	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R3582	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R3583	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R3584	VRS-CB1JF560J	J	56	1/16W Metal Oxide	AD
R3585	VRS-CB1JF560J	J	56	1/16W Metal Oxide	AD
R3586	VRS-CB1JF560J	J	56	1/16W Metal Oxide	AD
R3587	VRS-CB1JF560J	J	56	1/16W Metal Oxide	AD
R3588	VRS-CB1JF560J	J	56	1/16W Metal Oxide	AD
R3589	VRS-CB1JF560J	J	56	1/16W Metal Oxide	AD
R3590	VRS-CB1JF560J	J	56	1/16W Metal Oxide	AD
R3591	VRS-CB1JF560J	J	56	1/16W Metal Oxide	AD
R3592	VRS-CB1JF560J	J	56	1/16W Metal Oxide	AD
R3593	VRS-CB1JF560J	J	56	1/16W Metal Oxide	AD
R3594	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3595	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3597	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3598	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3599	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3604	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R3610	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3611	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3612	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3613	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3614	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3615	VRS-CB1JF560J	J	56	1/16W Metal Oxide	AD
R3616	VRS-CB1JF560J	J	56	1/16W Metal Oxide	AD
R3617	VRS-CB1JF560J	J	56	1/16W Metal Oxide	AD
R3618	VRS-CB1JF560J	J	56	1/16W Metal Oxide	AD
R3619	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3620	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3621	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3622	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3623	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3624	VRS-CB1JF560J	J	56	1/16W Metal Oxide	AD
R3625	VRS-CB1JF560J	J	56	1/16W Metal Oxide	AD
R3626	VRS-CB1JF560J	J	56	1/16W Metal Oxide	AD
R3627	VRS-CB1JF560J	J	56	1/16W Metal Oxide	AD
R3635	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3636	VRS-CY1JF560J	J	56	1/16W Metal Oxide	AA
R3639	VRS-CY1JF560J	J	56	1/16W Metal Oxide	AA

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SIGNAL UNIT (Continued)

Ref. No.	Part No.	★		Description	Code
R3640	VRS-CY1JF560J	J	56	1/16W Metal Oxide	AA
R3641	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3643	VRS-CY1JF560J	J	56	1/16W Metal Oxide	AA
R3644	VRS-CB1JF560J	J	56	1/16W Metal Oxide	AD
R3645	VRS-CB1JF560J	J	56	1/16W Metal Oxide	AD
R3648	VRS-CY1JF153J	J	15k	1/16W Metal Oxide	AA
R3650	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3651	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3653	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3654	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3656	VRS-CY1JF433J	J	43k	1/16W Metal Oxide	AA
R3657	VRS-CY1JF563J	J	56k	1/16W Metal Oxide	AA
R3658	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3659	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3660	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R3661	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3662	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R3666	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R3667	VRS-CY1JF153J	J	15k	1/16W Metal Oxide	AA
R3668	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3669	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3670	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3671	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3673	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3675	VRS-CY1JF433J	J	43k	1/16W Metal Oxide	AA
R3676	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R3679	VRS-CY1JF563J	J	56k	1/16W Metal Oxide	AA
R3680	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R3681	VRS-CY1JF563J	J	56k	1/16W Metal Oxide	AA
R3682	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3683	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3684	VRS-CY1JF560J	J	56	1/16W Metal Oxide	AA
R3687	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R3688	VRS-CY1JF472J	J	4.7k	1/16W Metal Oxide	AA
R3689	VRS-CY1JF472J	J	4.7k	1/16W Metal Oxide	AA
R3690	VRS-CY1JF472J	J	4.7k	1/16W Metal Oxide	AA
R3691	VRS-CY1JF472J	J	4.7k	1/16W Metal Oxide	AA
R3692	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R3693	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3694	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3701	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R3702	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3704	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3705	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3706	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3707	VRS-CY1JF471J	J	470	1/16W Metal Oxide	AA
R3708	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3709	VRS-CY1JF471J	J	470	1/16W Metal Oxide	AA
R3710	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3711	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3712	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3713	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3714	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3715	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R3716	VRN-CY1JF682D	J	6.8k	1/16W Metal Film	AB
R3717	VRN-CY1JF563D	J	56k	1/16W Metal Film	AB
R3718	VRS-CY1JF181J	J	180	1/16W Metal Oxide	AA
R3719	VRS-CY1JF181J	J	180	1/16W Metal Oxide	AA
R3720	VRS-CY1JF181J	J	180	1/16W Metal Oxide	AA
R3724	VRS-CY1JF681J	J	680	1/16W Metal Oxide	AA
R3725	VRS-CY1JF681J	J	680	1/16W Metal Oxide	AA
R3726	VRS-CY1JF681J	J	680	1/16W Metal Oxide	AA
R3731	VRS-CY1JF362F	J	3.6k	1/16W Metal Oxide	AA
R3732	VRS-CY1JF242F	J	2.4k	1/16W Metal Oxide	AA
R3734	VRS-CY1JF302F	J	3.0k	1/16W Metal Oxide	AA
R3735	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3736	VRS-CY1JF472J	J	4.7k	1/16W Metal Oxide	AA
R3737	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3738	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3739	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3740	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3741	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3742	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3743	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3744	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3745	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3746	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3747	VRS-CY1JF560J	J	56	1/16W Metal Oxide	AA
R3748	VRS-CY1JF473J	J	47k	1/16W Metal Oxide	AA
R3749	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3801	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3802	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3803	VRS-CY1JF104J	J	100k	1/16W Metal Oxide	AA
R3804	VRS-CY1JF562J	J	5.6k	1/16W Metal Oxide	AA
R3805	VRS-CY1JF332J	J	3.3k	1/16W Metal Oxide	AA
R3806	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3807	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3808	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3809	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3810	VRS-CY1JF331J	J	330	1/16W Metal Oxide	AA
R3811	VRS-CY1JF474J	J	470k	1/16W Metal Oxide	AA
R3812	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R3813	VRS-CY1JF123J	J	12k	1/16W Metal Oxide	AA
R3814	VRS-CY1JF123J	J	12k	1/16W Metal Oxide	AA
R3815	VRS-CY1JF333J	J	33k	1/16W Metal Oxide	AA
R3816	VRN-CY1JF223D	J	22k	1/16W Metal Film	AA
R3817	VRN-CY1JF473D	J	47k	1/16W Metal Film	AB
R3818	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3819	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3820	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3821	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R3822	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3823	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R3824	VRS-CY1JF471J	J	470	1/16W Metal Oxide	AA
R3825	VRS-CY1JF152J	J	1.5k	1/16W Metal Oxide	AA
R3826	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4001	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4002	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4003	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA

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SIGNAL UNIT (Continued)

Ref. No.	Part No.	★		Description	Code
R4004	VRS-CY1JF681J	J	680	1/16W Metal Oxide	AA
R4005	VRS-CY1JF681J	J	680	1/16W Metal Oxide	AA
R4006	VRS-CY1JF681J	J	680	1/16W Metal Oxide	AA
R4007	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R4008	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R4009	VRS-CY1JF332J	J	3.3k	1/16W Metal Oxide	AA
R4010	VRS-CY1JF332J	J	3.3k	1/16W Metal Oxide	AA
R4016	VRS-CY1JF123F	J	12k	1/16W Metal Oxide	AA
R4017	VRS-CY1JF123F	J	12k	1/16W Metal Oxide	AA
R4018	VRS-CY1JF152F	J	1.5k	1/16W Metal Oxide	AA
R4019	VRS-CY1JF123F	J	12k	1/16W Metal Oxide	AA
R4020	VRS-CY1JF123F	J	12k	1/16W Metal Oxide	AA
R4021	VRS-CY1JF152F	J	1.5k	1/16W Metal Oxide	AA
R4027	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R4028	VRS-CB1JF560J	J	56	1/16W Metal Oxide	AD
R4029	VRS-CB1JF560J	J	56	1/16W Metal Oxide	AD
R4030	VRS-CB1JF560J	J	56	1/16W Metal Oxide	AD
R4031	VRS-CB1JF560J	J	56	1/16W Metal Oxide	AD
R4035	VRS-CB1JF560J	J	56	1/16W Metal Oxide	AD
R4036	VRS-CB1JF560J	J	56	1/16W Metal Oxide	AD
R4039	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R4040	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R4041	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R4043	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R4044	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R4046	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R4049	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4051	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R4052	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R4055	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4056	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R4057	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R4058	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R4059	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4061	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R4062	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R4063	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4064	VRS-CB1JF100J	J	10	1/16W Metal Oxide	AA
R4065	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4067	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4069	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4071	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4072	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4073	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4074	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4075	VRS-CB1JF100J	J	10	1/16W Metal Oxide	AA
R4076	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4077	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4078	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4079	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4080	VRS-CB1JF100J	J	10	1/16W Metal Oxide	AA
R4081	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4082	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R4083	VRS-CY1JF560J	J	56	1/16W Metal Oxide	AA
R4084	VRS-CY1JF560J	J	56	1/16W Metal Oxide	AA
R4085	VRS-CY1JF560J	J	56	1/16W Metal Oxide	AA
R4086	VRS-CB1JF220J	J	22	1/16W Metal Oxide	AC
R4090	VRS-CB1JF220J	J	22	1/16W Metal Oxide	AC
R4094	VRS-CB1JF220J	J	22	1/16W Metal Oxide	AC
R4095	VRS-CB1JF220J	J	22	1/16W Metal Oxide	AC
R4096	VRS-CB1JF220J	J	22	1/16W Metal Oxide	AC
R4101	VRS-CB1JF220J	J	22	1/16W Metal Oxide	AC
R4105	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4106	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4107	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R4108	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4109	VRS-CB1JF100J	J	10	1/16W Metal Oxide	AA
R4113	VRS-CB1JF100J	J	10	1/16W Metal Oxide	AA
R4117	VRS-CB1JF100J	J	10	1/16W Metal Oxide	AA
R4121	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R4122	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R4123	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R4124	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4125	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4126	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R4127	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R4128	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R4129	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R4130	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R4131	VRS-CB1JF100J	J	10	1/16W Metal Oxide	AA
R4132	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R4134	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R4135	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4136	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4137	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4138	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4139	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4140	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4141	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4142	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4143	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4144	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4146	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4147	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4148	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4149	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4150	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4151	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4152	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4153	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4154	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4155	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4156	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4157	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4158	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4159	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4160	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R4162	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R4163	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA

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SIGNAL UNIT (Continued)

Ref. No.	Part No.	★		Description	Code
R4164	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R4165	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R4166	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R4167	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R4169	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R4170	VRS-CY1JF333J	J	33k	1/16W Metal Oxide	AA
R4171	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R4172	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R4176	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4177	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4178	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4179	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4180	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4181	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4182	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4183	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4184	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4185	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4186	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4187	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4188	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4189	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4190	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4191	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4192	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4193	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4194	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4195	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4196	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4197	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4198	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4199	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4200	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R4201	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R4202	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4203	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4204	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4205	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4206	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4207	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4208	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4209	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4210	VRS-CY1JF681J	J	680	1/16W Metal Oxide	AA
R4211	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4212	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4213	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4214	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4215	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4216	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4217	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4218	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4219	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4220	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4221	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4222	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4223	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4224	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4225	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4226	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4227	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4228	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4229	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4230	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4231	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4232	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4233	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4234	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4235	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R4236	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4237	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4238	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4239	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4240	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4241	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4242	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4243	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4244	VRS-CY1JF472J	J	4.7k	1/16W Metal Oxide	AA
R4245	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R4246	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R4247	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R4250	VRS-CY1JF153J	J	15k	1/16W Metal Oxide	AA
R4251	VRS-CY1JF333J	J	33k	1/16W Metal Oxide	AA
R4253	VRS-CY1JF333J	J	33k	1/16W Metal Oxide	AA
R4255	VRS-CY1JF333J	J	33k	1/16W Metal Oxide	AA
R4257	VRS-CY1JF471J	J	470	1/16W Metal Oxide	AA
R4258	VRS-CY1JF471J	J	470	1/16W Metal Oxide	AA
R4259	VRS-CY1JF471J	J	470	1/16W Metal Oxide	AA
R4260	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R4261	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R4262	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R4263	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4264	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4265	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4268	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R4269	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R4270	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R4272	VRS-CY1JF470J	J	47	1/16W Metal Oxide	AA
R4275	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R4276	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R4277	VRS-TX2HF330J	J	33	1/2W Metal Oxide	AA
R4278	VRS-TX2HF330J	J	33	1/2W Metal Oxide	AA
R4282	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R4284	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R4285	VRS-CY1JF123J	J	12k	1/16W Metal Oxide	AA
R4286	VRS-CY1JF123J	J	12k	1/16W Metal Oxide	AA
R4287	VRS-CY1JF123J	J	12k	1/16W Metal Oxide	AA
R4288	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4289	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R4290	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code

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SIGNAL UNIT (Continued)

R4291	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide		AA
R4292	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide		AA
R4293	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide		AA
R4294	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide		AA
R4295	VRS-CY1JF000J	J	00	1/16W	Metal Oxide		AA
R4296	VRS-CY1JF000J	J	00	1/16W	Metal Oxide		AA
R4297	VRS-CY1JF100J	J	10	1/16W	Metal Oxide		AA
R4298	VRS-CY1JF100J	J	10	1/16W	Metal Oxide		AA
R4301	VRS-TX2HF000J	J	00	1/2W	Metal Oxide		AA
R4302	VRS-TX2HF000J	J	00	1/2W	Metal Oxide		AA
R4303	VRS-CY1JF000J	J	00	1/16W	Metal Oxide		AA
R4304	VRS-TX2HF000J	J	00	1/2W	Metal Oxide		AA
R4305	VRS-TX2HF000J	J	00	1/2W	Metal Oxide		AA

MISCELLANEOUS PARTS

FB3002	RBLN-0061TAZZ	J	Ferrite Bead	AD
FB3003	RBLN-0061TAZZ	J	Ferrite Bead	AD
FB3005	RBLN-0061TAZZ	J	Ferrite Bead	AD
FB3006	RBLN-0061TAZZ	J	Ferrite Bead	AD
FB3007	RBLN-0061TAZZ	J	Ferrite Bead	AD
FB3008	RBLN-0065CEZZ	J	Ferrite Bead	AB
FB3009	RBLN-0065CEZZ	J	Ferrite Bead	AB
FB3010	RBLN-0065CEZZ	J	Ferrite Bead	AB
FB3017	RBLN-0065CEZZ	J	Ferrite Bead	AB
FB3019	RBLN-0061TAZZ	J	Ferrite Bead	AD
FB3020	RBLN-0060CEZZ	J	Ferrite Bead	AC
FB3021	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB3022	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB3025	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB3413	RBLN-0060CEZZ	J	Ferrite Bead	AC
FB3414	RBLN-0060CEZZ	J	Ferrite Bead	AC
FB3501	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB3502	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB3503	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB3504	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB3505	RBLN-0060CEZZ	J	Ferrite Bead	AC
FB3506	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB3507	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB3508	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB3509	RBLN-0060CEZZ	J	Ferrite Bead	AC
FB3510	RBLN-0060CEZZ	J	Ferrite Bead	AC
FB3511	RBLN-0060CEZZ	J	Ferrite Bead	AC
FB3512	RBLN-0060CEZZ	J	Ferrite Bead	AC
FB3513	RBLN-0061TAZZ	J	Ferrite Bead	AD
FB3514	RBLN-0061TAZZ	J	Ferrite Bead	AD
FB3515	RBLN-0061TAZZ	J	Ferrite Bead	AD
FB3516	RBLN-0061TAZZ	J	Ferrite Bead	AD
FB3517	RBLN-0061TAZZ	J	Ferrite Bead	AD
FB3518	RBLN-0061TAZZ	J	Ferrite Bead	AD
FB4002	RBLN-0060CEZZ	J	Ferrite Bead	AC
FB4003	RBLN-0060CEZZ	J	Ferrite Bead	AC
FB4004	RBLN-0060CEZZ	J	Ferrite Bead	AC
FB4006	RBLN-0061TAZZ	J	Ferrite Bead	AD
FB4007	RBLN-0061TAZZ	J	Ferrite Bead	AD
FB4008	RBLN-0061TAZZ	J	Ferrite Bead	AD
FB4010	RBLN-0061TAZZ	J	Ferrite Bead	AD
FB4011	RBLN-0061TAZZ	J	Ferrite Bead	AD
FB4015	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB4016	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB4017	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB4018	RBLN-0061TAZZ	J	Ferrite Bead	AD
FB4019	RBLN-0061TAZZ	J	Ferrite Bead	AD
FB4020	RBLN-0061TAZZ	J	Ferrite Bead	AD
FB4025	RBLN-0061TAZZ	J	Ferrite Bead	AD
FB4026	RBLN-0060CEZZ	J	Ferrite Bead	AC
FB4032	RBLN-0061TAZZ	J	Ferrite Bead	AD
FB4033	RBLN-0060CEZZ	J	Ferrite Bead	AC
FB4034	RBLN-0060CEZZ	J	Ferrite Bead	AC
FB4035	RBLN-0060CEZZ	J	Ferrite Bead	AC
FB4038	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB4039	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB4040	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB4041	RBLN-0061TAZZ	J	Ferrite Bead	AD
J3001	QJAKE0043GEZZ	J	Jack, Computer Audio IN	AD
J3002	QJAKJ0104CEZZ	J	Jack, Wired R/C IN	AE
J3003	QJAKE0189CEZZ	J	Jack, Video Output	AK
P3001	QPLGZ2844CEZZ	J	Plug, 28-Pin	AF
P3003	QPLGN0563TAZZ	J	Plug, 5-Pin	AC
P3004	QPLGN0763TAZZ	J	Plug, 7-Pin	AD
P3501	QPLGZ2844CEZZ	J	Plug, 28-Pin (TN)	AF
P4001	QPLGZ7053CEZZ	J	Plug, 7-Pin	AR
P4002	QPLGN1062CEZZ	J	Plug, 10-Pin (EC)	AC
SC4001	QSOCZ3245CEZZ	J	Socket	AK

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OUTPUT UNIT

INTEGRATED CIRCUITS

Ref. No.	Part No.	★	Description	Code
IC1001	VHiM62320FP-1	J	M62320FP	AK
IC1003	VHiTA8184F/-1	J	TA8184F	AN
IC1004	VHiNJ2233BM-1	J	NJ2233BM	AE
IC1005	VHiNJ2233BM-1	J	NJ2233BM	AE
IC1006	VHiCXD2442Q-1	J	CXD2442Q	BC
IC1007	RH-iX2174CEZZ	J	I.C.	AG
IC1008	VHiHCT541AF-1	J	HCT541AF	AG
IC1009	VHiHCT541AF-1	J	HCT541AF	AG
IC1010	VHiM52320SP-1	J	M52320SP	AP
IC1011	VHiCXA2112R-1	J	CXA2112R	BB
IC1012	VHiCXA2111R-1	J	CXA2111R	BB
IC1013	VHiTHC221AF-1	J	THC221AF	AG
IC1014	VHiPQ05TZ11-1	J	PQ05TZ11	AH
IC1015	VHiNJM2060V-1	J	NJM2060V	AF
IC1016	VHiPQ20VZ11-1	J	PQ20VZ11	AH
IC1017	VHiM62352GP-1	J	M62352GP	AQ
IC1018	VHiM62352GP-1	J	M62352GP	AQ
IC1019	VHiCXA2112R-1	J	CXA2112R	BB
IC1020	VHiCXA2112R-1	J	CXA2112R	BB
IC1022	VHiAV9173CS-1	J	AV9173CS	AU
IC1023	VHiT7SET08U-1	J	T7SET08U	AE
IC1024	VHiNJM2904V-1	J	NJM2904V	AF
IC1025	VHiTC4W53U/-1	J	TC4W53U	AF
IC1026	VHiTC4W66U/-1	J	TC4W66U	AF
IC1027	VHiNJM2060V-1	J	NJM2060V	AF
IC1029	VHiM62392FP-1	J	M62392FP	AM
IC2001	RH-iX3221CEZZ	J	I.C.	AY
IC2002	VHi24LC8BiN-1	J	24LC8BiN	AM
IC2003	VHiPST529CM-1	J	PST529CM	AE
IC2004	VHiTC7W66U/-1	J	TC7W66U	AE
IC2005	RH-iX3263CEZZ	J	I.C.	AX
IC2006	VHiM62352GP-1	J	M62352GP	AQ
IC2007	VHiPQ05SZ51-1	J	PQ05SZ51	AG
IC2008	VHiPST529CM-1	J	PST529CM	AE
IC2009	VHiTC7S08F/-1	J	TC7S08F	AC
IC2010	VHiTC7S86F/-1	J	TC7S86F	AD
IC2011	VHi74HC07AF-1	J	74HC07AF	AD
IC2012	RH-iX1427CEZZ	J	I.C.	AF
IC2501	RH-iX2204CEZZ	J	PQ12TZ11	AG
IC2502	VHiPQ05TZ11-1	J	PQ05TZ11	AH
IC2503	VHiPQ20VZ11-1	J	PQ20VZ11	AH
IC2504	VHiPQ20VZ11-1	J	PQ20VZ11	AH
IC2505	VHiTC4S66F/-1	J	TC4S66F	AD
IC2506	VHiPQ20VZ11-1	J	PQ20VZ11	AH
IC2507	VHiTA7279P/-1	J	TA7279P	AP
IC2508	VHiLB1831M/-1	J	LB1831M	AN
IC2509	VHiPQ05TZ11-1	J	PQ05TZ11	AH

TRANSISTORS

Ref. No.	Part No.	★	Description	Code
Q1001	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1002	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q1003	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q1004	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q1005	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q1006	VS2SC2411KR-1	J	2SC2411KR	AC
Q1007	VS2SA1036KR-1	J	2SA1036KR	AC
Q1008	VS2SC2411KR-1	J	2SC2411KR	AC
Q1009	VS2SA1036KR-1	J	2SA1036KR	AC
Q1010	VS2SC2411KR-1	J	2SC2411KR	AC
Q1011	VS2SA1036KR-1	J	2SA1036KR	AC
Q1012	VS2SC2411KR-1	J	2SC2411KR	AC
Q1013	VS2SA1036KR-1	J	2SA1036KR	AC
Q1014	VS2SC2411KR-1	J	2SC2411KR	AC
Q1015	VS2SA1036KR-1	J	2SA1036KR	AC
Q1016	VS2SC2411KR-1	J	2SC2411KR	AC
Q1017	VS2SA1036KR-1	J	2SA1036KR	AC
Q1018	VS2SC2411KR-1	J	2SC2411KR	AC
Q1019	VS2SA1036KR-1	J	2SA1036KR	AC
Q1020	VS2SC2411KR-1	J	2SC2411KR	AC
Q1021	VS2SA1036KR-1	J	2SA1036KR	AC
Q1022	VS2SC2411KR-1	J	2SC2411KR	AC
Q1023	VS2SA1036KR-1	J	2SA1036KR	AC
Q1024	VS2SC2411KR-1	J	2SC2411KR	AC
Q1025	VS2SA1036KR-1	J	2SA1036KR	AC
Q1026	VS2SC2411KR-1	J	2SC2411KR	AC
Q1027	VS2SA1036KR-1	J	2SA1036KR	AC
Q1028	VS2SC2411KR-1	J	2SC2411KR	AC
Q1029	VS2SA1036KR-1	J	2SA1036KR	AC
Q1030	VS2SA1669//-1	J	2SA1669	AF
Q1031	VS2SA1669//-1	J	2SA1669	AF
Q1032	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1033	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1034	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1035	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1036	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1037	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q1038	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1039	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1040	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2001	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2002	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2003	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2004	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2005	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2006	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2007	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2008	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2009	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2011	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2501	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q2502	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2503	VSDTC114EU/-1	J	DTC114EU	AB
Q2504	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2505	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2506	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q2507	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2508	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2509	VS2SD1664R/-1	J	2SD1664R	AC

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OUTPUT UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
Q2510	VS2SD1664R/-1	J	2SD1664R	AC
Q2511	VS2SD1664R/-1	J	2SD1664R	AC

DIODES

D1001	VHDDAN202K/-1	J	Diode	AB
D1002	VHDDAN202K/-1	J	Diode	AB
D2001	VHDDAN202K/-1	J	Diode	AB
D2002	VHDDAN202K/-1	J	Diode	AB
D2003	VHDDAN202K/-1	J	Diode	AB
D2004	VHDDAN202K/-1	J	Diode	AB
D2005	VHDMA153///-1	J	Diode	AB
D2006	VHDMA153///-1	J	Diode	AB
D2007	VHDMA153///-1	J	Diode	AB
D2008	VHDMA153///-1	J	Diode	AB
D2009	VHDDAN202K/-1	J	Diode	AB
D2010	VHDDAN202K/-1	J	Diode	AB
D2011	VHDDAN202K/-1	J	Diode	AB
D2012	VHDDAN202K/-1	J	Diode	AB
D2013	VHDMA153///-1	J	Diode	AB
D2014	VHDMA153///-1	J	Diode	AB
D2015	VHDMA153///-1	J	Diode	AB
D2016	VHDMA153///-1	J	Diode	AB
D2022	RH-EX0251CEZZ	J	Zener Diode	AB
D2023	RH-EX0251CEZZ	J	Zener Diode	AB
D2024	RH-EX0251CEZZ	J	Zener Diode	AB
D2025	VHDDAN202K/-1	J	Diode	AB
D2026	VHDMA153///-1	J	Diode	AB
D2028	VHDDAN202K/-1	J	Diode	AB
D2030	VHDDAN202K/-1	J	Diode	AB
D2501	VHDDAN202K/-1	J	Diode	AB
D2502	VHDDAN202K/-1	J	Diode	AB
D2503	VHDDAN202K/-1	J	Diode	AB
D2504	VHDDAN202K/-1	J	Diode	AB
D2506	VHDDAN202K/-1	J	Diode	AB
D2507	VHDDAN202K/-1	J	Diode	AB
D2508	RH-EX0516CEZZ	J	Zener Diode	AB
D2509	VHDDAN202K/-1	J	Diode	AB
D2510	VHDDAN202K/-1	J	Diode	AB
D2511	VHDDAN202K/-1	J	Diode	AB
D2512	VHDDAN202K/-1	J	Diode	AB
D2513	VHDDAN202K/-1	J	Diode	AB

COILS AND FILTERS

CF2001	RFiLC0039TAZZ	J	Filter	AF
CF2002	RFiLC0039TAZZ	J	Filter	AF
FL2501	RFiLN0097GEZZ	J	Filter	AF
FL2502	RFiLN0097GEZZ	J	Filter	AF
FL2503	RFiLN0097GEZZ	J	Filter	AF
FL2504	RFiLN0097GEZZ	J	Filter	AF
FL2505	RFiLN0097GEZZ	J	Filter	AF
L1002	VP-1M100J1R6N	J	Peaking 10µH	AC
L1003	VP-1M100J1R6N	J	Peaking 10µH	AC
L1101	VP-1M100J1R6N	J	Peaking 10µH	AC
L2001	VP-1M100J1R6N	J	Peaking 10µH	AC
L2002	VP-1M100J1R6N	J	Peaking 10µH	AC
L2501	RCiLP0168TAZZ	J	Coil	AF

CONTROL

R1418	RVR-M7904TAZZ	J	Variable Resistor	AC

CAPACITORS

C1001	VCEAPF0JW226M	J	22	6.3V	Electrolytic	AB
C1002	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1003	VCEAPF1HW105M	J	1.0	50V	Electrolytic	AB
C1004	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C1005	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C1006	VCFRED1HM822J	J	8200p	50V	Mylar	AD
C1007	VCFYEC1CM334J	J	0.33	16V	Mylar	AE
C1008	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1009	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1010	VCKYTV1CF105Z	J	1.0	16V	Ceramic	AB
C1011	VCKYTV1CF105Z	J	1.0	16V	Ceramic	AB
C1013	VCFRED1HM822J	J	8200p	50V	Mylar	AD
C1014	VCFYEC1CM334J	J	0.33	16V	Mylar	AE
C1015	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1016	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1017	VCKYTV1CF105Z	J	1.0	16V	Ceramic	AB
C1018	VCKYCY1CF154Z	J	0.15	16V	Ceramic	AB
C1019	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1020	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1021	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1022	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1023	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1024	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1025	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1026	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C1027	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1028	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1029	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1030	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1031	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C1032	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1033	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1034	VCCCCY1EH561J	J	560p	25V	Ceramic	AA
C1036	VCCCCY1HH471J	J	470p	50V	Ceramic	AA
C1037	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1038	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1039	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1040	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1041	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1042	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1043	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1044	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1045	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1046	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1047	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1048	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1050	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1051	VCCCCY1HH100D	J	10p	50V	Ceramic	AA

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Ref. No.	Part No.	★			Description	Code
C1052	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1053	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1054	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1055	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1056	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1057	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1058	VCEAPF1HW225M	J	2.2	50V	Electrolytic	AB
C1059	VCEAPF1HW225M	J	2.2	50V	Electrolytic	AB
C1060	VCEAPF1HW225M	J	2.2	50V	Electrolytic	AB
C1061	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1062	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1063	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1064	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1065	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C1066	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1067	VCEAPF1VW226M	J	22	35V	Electrolytic	AB
C1068	VCEAPF1EW226M	J	22	25V	Electrolytic	AB
C1069	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1071	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C1072	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C1073	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1074	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1075	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1076	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1077	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1078	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1079	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1080	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1081	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1082	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1083	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1084	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1085	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1086	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1087	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1088	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1089	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1090	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1091	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1092	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1093	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1094	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C1095	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1096	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1097	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1098	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C1099	RC-EZ0647CEZZ	J	33	16V	Electrolytic	
C1100	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1101	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1102	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1103	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1104	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1105	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1106	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1107	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1108	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1109	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1110	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1111	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1112	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1113	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1114	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1115	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1116	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1117	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1118	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1119	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1120	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1121	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1123	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1124	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1125	VCCCCY1HH331J	J	330p	50V	Ceramic	AA
C1126	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1127	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1128	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1129	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1130	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1131	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1132	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1133	VCCCCY1EH102J	J	1000p	25V	Ceramic	AB
C1135	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1136	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1137	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1138	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1139	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1140	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1141	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C1142	VCEAPF1HW105M	J	1.0	50V	Electrolytic	AB
C1143	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1144	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1145	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1146	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C1147	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C1148	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C1149	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C1151	VCCCCY1HH560J	J	56p	50V	Ceramic	AA
C1152	VCCCCY1HH560J	J	56p	50V	Ceramic	AA
C1153	VCCCCY1HH560J	J	56p	50V	Ceramic	AA
C2005	VCEAPX0JW337M	J	330	6.3V	Electrolytic	AD
C2006	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C2007	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C2009	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C2010	VCEAPF1HW335M	J	3.3	50V	Electrolytic	AB
C2011	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C2012	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C2013	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C2014	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C2015	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C2016	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA

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Ref. No.	Part No.	★			Description	Code
C2017	VCEAPF1CW226M	J	22	16V	Electrolytic	AB
C2020	VCEAPF1HW335M	J	3.3	50V	Electrolytic	AB
C2021	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C2022	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C2023	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C2024	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C2025	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C2026	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C2027	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C2028	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C2029	VCCCCY1EH102J	J	1000p	25V	Ceramic	AB
C2501	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C2502	VCEAPF1EW475M	J	4.7	25V	Electrolytic	AB
C2503	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C2504	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C2505	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C2506	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C2507	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C2508	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C2509	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C2510	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C2511	VCEAPX1EW107M	J	100	25V	Electrolytic	AD
C2512	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C2513	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C2514	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C2515	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C2516	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C2517	VCEAPX1CW227M	J	220	16V	Electrolytic	AD
C2518	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C2519	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C2520	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C2521	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C2522	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C2523	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C2524	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C2525	VCEAPX1CW227M	J	220	16V	Electrolytic	AD
C2526	VCEAPF1CW226M	J	22	16V	Electrolytic	AB
C2527	VCEAPX1CW227M	J	220	16V	Electrolytic	AD
C2528	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C2530	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C2531	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C2532	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C2533	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C2534	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C2535	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C2536	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C2537	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C2538	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C2539	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C2540	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C2541	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C2542	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C2543	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C2544	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C2545	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C2546	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C2547	VCEAPX1CW227M	J	220	16V	Electrolytic	AD
C2548	VCEAPX1CW227M	J	220	16V	Electrolytic	AD
C2549	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C2550	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C2551	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C2592	VCEAPX1EW107M	J	100	25V	Electrolytic	AD
C2593	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C4319	VCCCCY1HH100D	J	10p	50V	Ceramic	AA

RESISTORS

R537	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1004	VRS-CY1JF000J	J	00	1/16W	Metal Oxide	AA
R1005	VRS-CY1JF000J	J	00	1/16W	Metal Oxide	AA
R1006	VRS-CY1JF000J	J	00	1/16W	Metal Oxide	AA
R1007	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1008	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1010	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1011	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1012	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1013	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1014	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1015	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1016	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1017	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1018	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1019	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1020	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1021	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1022	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1023	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1024	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1025	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1026	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1027	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1028	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1029	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1030	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1031	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1032	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1033	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1035	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1036	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1037	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R1038	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1042	VRS-CY1JF000J	J	00	1/16W	Metal Oxide	AA
R1043	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1044	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1048	VRS-CY1JF000J	J	00	1/16W	Metal Oxide	AA
R1049	VRS-TX2HF5R6J	J	5.6	1/2W	Metal Oxide	AA
R1050	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R1051	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R1052	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1053	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA

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OUTPUT UNIT (Continued)

Ref. No.	Part No.	★		Description	Code
R1054	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R1055	VRS-CY1JF104J	J	100k	1/16W Metal Oxide	AA
R1056	VRS-CY1JF473J	J	47k	1/16W Metal Oxide	AA
R1058	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R1059	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R1061	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1062	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R1063	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R1064	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R1065	VRS-CB1JF102J	J	1.0k	1/16W Metal Oxide	AA
R1066	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1067	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1068	VRS-CB1JF270J	J	27	1/16W Metal Oxide	AE
R1069	VRS-CB1JF270J	J	27	1/16W Metal Oxide	AE
R1070	VRS-CB1JF270J	J	27	1/16W Metal Oxide	AE
R1071	VRS-CB1JF270J	J	27	1/16W Metal Oxide	AE
R1072	VRN-CY1JF472D	J	4.7k	1/16W Metal Film	AA
R1073	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1075	VRN-CY1JF272D	J	2.7k	1/16W Metal Film	AB
R1076	VRS-CB1JF100J	J	10	1/16W Metal Oxide	AA
R1077	VRS-CB1JF100J	J	10	1/16W Metal Oxide	AA
R1078	VRS-CB1JF100J	J	10	1/16W Metal Oxide	AA
R1079	VRS-CB1JF100J	J	10	1/16W Metal Oxide	AA
R1080	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1081	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1082	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1084	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R1086	VRS-CY1JF471J	J	470	1/16W Metal Oxide	AA
R1087	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R1088	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R1089	VRS-CY1JF471J	J	470	1/16W Metal Oxide	AA
R1090	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R1091	VRS-CY1JF471J	J	470	1/16W Metal Oxide	AA
R1092	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1093	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1094	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1095	VRS-CY1JF152J	J	1.5k	1/16W Metal Oxide	AA
R1096	VRS-CY1JF152J	J	1.5k	1/16W Metal Oxide	AA
R1097	VRS-CY1JF152J	J	1.5k	1/16W Metal Oxide	AA
R1101	VRS-CY1JF332J	J	3.3k	1/16W Metal Oxide	AA
R1102	VRS-CY1JF332J	J	3.3k	1/16W Metal Oxide	AA
R1103	VRS-CY1JF332J	J	3.3k	1/16W Metal Oxide	AA
R1104	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R1105	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R1106	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R1107	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1108	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1109	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1110	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1111	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1115	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R1116	VRS-CY1JF821J	J	820	1/16W Metal Oxide	AA
R1117	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R1118	VRS-CY1JF821J	J	820	1/16W Metal Oxide	AA
R1119	VRS-CY1JF152J	J	1.5k	1/16W Metal Oxide	AA
R1120	VRS-CY1JF152J	J	1.5k	1/16W Metal Oxide	AA
R1121	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R1122	VRS-CY1JF821J	J	820	1/16W Metal Oxide	AA
R1123	VRS-CY1JF152J	J	1.5k	1/16W Metal Oxide	AA
R1124	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R1125	VRS-TX2HF4R7J	J	4.7	1/2W Metal Oxide	AB
R1126	VRS-CY1JF123F	J	12k	1/16W Metal Oxide	AA
R1127	VRS-CY1JF102F	J	1.0k	1/16W Metal Oxide	AA
R1128	VRS-CY1JF510F	J	51	1/16W Metal Oxide	AA
R1129	VRS-CY1JF202J	J	2.0k	1/16W Metal Oxide	AA
R1130	VRS-CY1JF302J	J	3.0k	1/16W Metal Oxide	AA
R1137	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R1138	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1139	VRS-CY1JF392J	J	3.9k	1/16W Metal Oxide	AA
R1140	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R1141	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1142	VRS-CY1JF392J	J	3.9k	1/16W Metal Oxide	AA
R1143	VRS-CY1JF392J	J	3.9k	1/16W Metal Oxide	AA
R1144	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R1146	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1147	VRS-CY1JF392J	J	3.9k	1/16W Metal Oxide	AA
R1148	VRS-CY1JF392J	J	3.9k	1/16W Metal Oxide	AA
R1149	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1150	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1151	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R1152	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R1153	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R1154	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R1155	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R1156	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R1157	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R1158	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R1159	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1160	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1161	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1162	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1163	VRS-CY1JF332J	J	3.3k	1/16W Metal Oxide	AA
R1165	VRS-CY1JF332J	J	3.3k	1/16W Metal Oxide	AA
R1166	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1167	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1168	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1169	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1170	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1171	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1172	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1173	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1174	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R1175	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1176	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1177	VRS-CY1JF273J	J	27k	1/16W Metal Oxide	AA
R1178	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1179	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1180	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1181	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA

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OUTPUT UNIT (Continued)

Ref. No.	Part No.	★		Description	Code
R1182	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1183	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1186	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1187	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1188	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1189	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1190	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1192	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1193	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R1194	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R1195	VRS-CY1JF3R3J	J	3.3	1/16W Metal Oxide	AA
R1196	VRS-CY1JF3R3J	J	3.3	1/16W Metal Oxide	AA
R1197	VRS-CY1JF3R3J	J	3.3	1/16W Metal Oxide	AA
R1198	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1199	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1200	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R1201	VRS-CY1JF3R3J	J	3.3	1/16W Metal Oxide	AA
R1202	VRS-CY1JF3R3J	J	3.3	1/16W Metal Oxide	AA
R1203	VRS-CY1JF3R3J	J	3.3	1/16W Metal Oxide	AA
R1204	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R1205	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1206	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1207	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1208	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1209	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1210	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1211	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1212	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1213	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1214	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1215	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1216	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1217	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1218	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1219	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1220	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1221	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1222	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1223	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1224	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1225	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1226	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1227	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1228	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1229	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1230	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1231	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1232	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1233	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1234	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1235	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1236	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1237	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1238	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1239	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1240	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1241	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1242	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1243	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1244	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1245	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R1246	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R1248	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1249	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1251	VRS-CY1JF332J	J	3.3k	1/16W Metal Oxide	AA
R1252	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1253	VRS-CY1JF332J	J	3.3k	1/16W Metal Oxide	AA
R1257	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1258	VRN-CY1JF682D	J	6.8k	1/16W Metal Film	AB
R1259	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1260	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1261	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1262	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1263	VRS-CY1JF332J	J	3.3k	1/16W Metal Oxide	AA
R1265	VRS-CY1JF332J	J	3.3k	1/16W Metal Oxide	AA
R1266	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1267	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1268	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1269	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1270	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1271	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1272	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1273	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1274	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R1275	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1276	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1277	VRS-CY1JF273J	J	27k	1/16W Metal Oxide	AA
R1278	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1279	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1280	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1281	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1282	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1283	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R1286	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1287	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1288	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1289	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1290	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1291	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1292	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1293	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1294	VRS-CY1JF332J	J	3.3k	1/16W Metal Oxide	AA
R1296	VRS-CY1JF332J	J	3.3k	1/16W Metal Oxide	AA
R1297	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1298	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1299	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1300	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1301	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1302	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA

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OUTPUT UNIT (Continued)

Ref. No.	Part No.	★		Description	Code
R1303	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1304	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1305	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R1306	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1307	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1308	VRS-CY1JF273J	J	27k	1/16W Metal Oxide	AA
R1309	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1310	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1311	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1312	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1313	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1314	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1315	VRS-CY1JF560J	J	56	1/16W Metal Oxide	AA
R1316	VRS-CY1JF560J	J	56	1/16W Metal Oxide	AA
R1317	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1318	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1319	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1320	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1321	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1322	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1323	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R1324	VRS-CY1JF3R3J	J	3.3	1/16W Metal Oxide	AA
R1325	VRS-CY1JF3R3J	J	3.3	1/16W Metal Oxide	AA
R1326	VRS-CY1JF3R3J	J	3.3	1/16W Metal Oxide	AA
R1327	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R1328	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1329	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1330	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R1331	VRS-CY1JF3R3J	J	3.3	1/16W Metal Oxide	AA
R1332	VRS-CY1JF3R3J	J	3.3	1/16W Metal Oxide	AA
R1333	VRS-CY1JF3R3J	J	3.3	1/16W Metal Oxide	AA
R1334	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R1336	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1337	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1338	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1339	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1340	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1341	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1342	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1343	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1344	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1345	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1346	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1347	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1348	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1349	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1350	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1352	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R1353	VRS-CY1JF3R3J	J	3.3	1/16W Metal Oxide	AA
R1354	VRS-CY1JF3R3J	J	3.3	1/16W Metal Oxide	AA
R1355	VRS-CY1JF3R3J	J	3.3	1/16W Metal Oxide	AA
R1356	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R1357	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1359	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R1360	VRS-CY1JF3R3J	J	3.3	1/16W Metal Oxide	AA
R1361	VRS-CY1JF3R3J	J	3.3	1/16W Metal Oxide	AA
R1362	VRS-CY1JF3R3J	J	3.3	1/16W Metal Oxide	AA
R1363	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1364	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1365	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R1366	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1367	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1368	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1369	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1370	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1371	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1372	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1373	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1374	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1375	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1376	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1377	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1378	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1379	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1380	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R1381	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R1382	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R1383	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1384	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1385	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1386	VRS-CY1JF221J	J	220	1/16W Metal Oxide	AA
R1387	VRS-CY1JF472J	J	4.7k	1/16W Metal Oxide	AA
R1388	VRS-CY1JF221J	J	220	1/16W Metal Oxide	AA
R1389	VRS-CY1JF472J	J	4.7k	1/16W Metal Oxide	AA
R1390	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1399	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1400	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1401	VRS-CY1JF223J	J	22k	1/16W Metal Oxide	AA
R1402	VRS-CY1JF153J	J	15k	1/16W Metal Oxide	AA
R1403	VRS-CY1JF123F	J	12k	1/16W Metal Oxide	AA
R1404	VRS-CY1JF103F	J	10k	1/16W Metal Oxide	AA
R1405	VRS-CY1JF392F	J	3.9k	1/16W Metal Oxide	AA
R1407	VRS-CY1JF272F	J	2.7k	1/16W Metal Oxide	AA
R1408	VRS-CY1JF822F	J	8.2k	1/16W Metal Oxide	AA
R1409	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R1410	VRS-CY1JF153J	J	15k	1/16W Metal Oxide	AA
R1411	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R1412	VRS-CY1JF472J	J	4.7k	1/16W Metal Oxide	AA
R1414	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R1417	VRS-CY1JF332J	J	3.3k	1/16W Metal Oxide	AA
R1419	VRS-CY1JF682J	J	6.8k	1/16W Metal Oxide	AA
R1420	VRS-CY1JF333J	J	33k	1/16W Metal Oxide	AA
R1421	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1422	VRS-CY1JF153J	J	15k	1/16W Metal Oxide	AA
R1423	VRS-CY1JF223J	J	22k	1/16W Metal Oxide	AA
R1424	VRS-CY1JF151J	J	150	1/16W Metal Oxide	AA
R1425	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1426	VRS-CY1JF151J	J	150	1/16W Metal Oxide	AA
R1427	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA

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OUTPUT UNIT (Continued)

Ref. No.	Part No.	★		Description	Code
R1428	VRS-CY1JF333J	J	33k	1/16W Metal Oxide	AA
R1429	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R1430	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1431	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1432	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R1433	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R1434	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R1435	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R1436	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R1437	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R1441	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1442	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1443	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R1444	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R1447	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1448	VRS-CY1JF332J	J	3.3k	1/16W Metal Oxide	AA
R1449	VRS-CY1JF152J	J	1.5k	1/16W Metal Oxide	AA
R1452	VRS-TV1JD000J	J	00	1/16W Metal Oxide	AA
R1453	VRS-TV1JD000J	J	00	1/16W Metal Oxide	AA
R1454	VRS-TV1JD000J	J	00	1/16W Metal Oxide	AA
R1455	VRS-TV1JD000J	J	00	1/16W Metal Oxide	AA
R1456	VRS-TV1JD000J	J	00	1/16W Metal Oxide	AA
R1457	VRS-TV1JD000J	J	00	1/16W Metal Oxide	AA
R1458	VRS-TV1JD000J	J	00	1/16W Metal Oxide	AA
R1459	VRS-TV1JD000J	J	00	1/16W Metal Oxide	AA
R1460	VRS-TV1JD000J	J	00	1/16W Metal Oxide	AA
R1461	VRS-TV1JD000J	J	00	1/16W Metal Oxide	AA
R1462	VRS-TV1JD000J	J	00	1/16W Metal Oxide	AA
R1463	VRS-TV1JD000J	J	00	1/16W Metal Oxide	AA
R1464	VRS-TV1JD000J	J	00	1/16W Metal Oxide	AA
R1465	VRS-TV1JD000J	J	00	1/16W Metal Oxide	AA
R1466	VRS-TV1JD000J	J	00	1/16W Metal Oxide	AA
R1467	VRS-TV1JD000J	J	00	1/16W Metal Oxide	AA
R1468	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R1469	VRS-CY1JF221J	J	220	1/16W Metal Oxide	AA
R2001	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2002	VRS-CY1JF471J	J	470	1/16W Metal Oxide	AA
R2003	VRS-CY1JF471J	J	470	1/16W Metal Oxide	AA
R2004	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2005	VRS-CY1JF471J	J	470	1/16W Metal Oxide	AA
R2006	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2007	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2008	VRS-CY1JF471J	J	470	1/16W Metal Oxide	AA
R2009	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2010	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2011	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2012	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2013	VRS-TX2HF000J	J	00	1/2W Metal Oxide	AA
R2014	VRS-CY1JF471J	J	470	1/16W Metal Oxide	AA
R2015	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2016	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2017	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2018	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2019	VRS-CY1JF561J	J	560	1/16W Metal Oxide	AA
R2020	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2022	VRS-CB1JF331J	J	330	1/16W Metal Oxide	AC
R2023	VRS-CY1JF561J	J	560	1/16W Metal Oxide	AA
R2024	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2025	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2026	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2027	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2028	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2029	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2030	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2031	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2032	VRS-CB1JF331J	J	330	1/16W Metal Oxide	AC
R2033	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R2034	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R2035	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2036	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R2037	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2039	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2040	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R2041	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R2042	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2043	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2044	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R2045	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R2046	VRS-CB1JF103J	J	10k	1/16W Metal Oxide	AA
R2047	VRS-CB1JF101J	J	100	1/16W Metal Oxide	AA
R2048	VRS-CB1JF103J	J	10k	1/16W Metal Oxide	AA
R2049	VRS-CB1JF103J	J	10k	1/16W Metal Oxide	AA
R2050	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2051	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2052	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2053	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2054	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R2056	VRS-CY1JF223J	J	22k	1/16W Metal Oxide	AA
R2057	VRS-CY1JF105J	J	1.0M	1/16W Metal Oxide	AA
R2058	VRS-CY1JF331J	J	330	1/16W Metal Oxide	AA
R2059	VRS-CY1JF223J	J	22k	1/16W Metal Oxide	AA
R2060	VRS-CY1JF223J	J	22k	1/16W Metal Oxide	AA
R2061	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R2062	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R2063	VRS-CY1JF331J	J	330	1/16W Metal Oxide	AA
R2064	VRS-CY1JF331J	J	330	1/16W Metal Oxide	AA
R2065	VRS-CY1JF331J	J	330	1/16W Metal Oxide	AA
R2066	VRS-CB1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2067	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2068	VRS-CY1JF104J	J	100k	1/16W Metal Oxide	AA
R2069	VRS-CY1JF331J	J	330	1/16W Metal Oxide	AA
R2070	VRS-CY1JF331J	J	330	1/16W Metal Oxide	AA
R2071	VRS-CY1JF331J	J	330	1/16W Metal Oxide	AA
R2072	VRS-CY1JF331J	J	330	1/16W Metal Oxide	AA
R2073	VRS-CY1JF223J	J	22k	1/16W Metal Oxide	AA
R2074	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2075	VRS-CY1JF331J	J	330	1/16W Metal Oxide	AA
R2076	VRS-CY1JF223J	J	22k	1/16W Metal Oxide	AA
R2077	VRS-CY1JF223J	J	22k	1/16W Metal Oxide	AA

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OUTPUT UNIT (Continued)

Ref. No.	Part No.	★		Description	Code
R2078	VRS-CY1JF221J	J	220	1/16W Metal Oxide	AA
R2080	VRS-CY1JF154J	J	150k	1/16W Metal Oxide	AA
R2081	VRS-CY1JF392J	J	3.9k	1/16W Metal Oxide	AA
R2082	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R2084	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2085	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2086	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2087	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2088	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2089	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2090	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2091	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2092	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2093	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2094	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2095	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2096	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2097	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2099	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2100	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2101	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2102	VRS-CY1JF105J	J	1.0M	1/16W Metal Oxide	AA
R2103	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R2104	VRS-CY1JF223J	J	22k	1/16W Metal Oxide	AA
R2106	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2107	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2108	VRN-CY1JF103D	J	10k	1/16W Metal Film	AA
R2109	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R2110	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2111	VRN-CY1JF472D	J	4.7k	1/16W Metal Film	AA
R2112	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2113	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2115	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2116	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2117	VRN-CY1JF682D	J	6.8k	1/16W Metal Film	AB
R2118	VRN-CY1JF272D	J	2.7k	1/16W Metal Film	AB
R2119	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R2120	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R2121	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2122	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2123	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R2124	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R2126	VRS-CY1JF223J	J	22k	1/16W Metal Oxide	AA
R2127	VRS-CY1JF223J	J	22k	1/16W Metal Oxide	AA
R2128	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R2129	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R2130	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R2131	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R2132	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2133	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2134	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2135	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2136	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2140	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R2141	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R2142	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R2143	VRS-CY1JF272J	J	2.7k	1/16W Metal Oxide	AA
R2144	VRS-CY1JF182J	J	1.8k	1/16W Metal Oxide	AA
R2145	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R2501	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2502	VRS-TX2HF2R2J	J	2.2	1/2W Metal Oxide	AB
R2503	VRS-TX2HF2R2J	J	2.2	1/2W Metal Oxide	AB
R2504	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2505	VRS-CB1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2506	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2507	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2509	VRS-CY1JF822J	J	8.2k	1/16W Metal Oxide	AA
R2511	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2512	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2514	VRS-CY1JF822J	J	8.2k	1/16W Metal Oxide	AA
R2517	VRS-CY1JF822J	J	8.2k	1/16W Metal Oxide	AA
R2518	VRS-CY1JF562J	J	5.6k	1/16W Metal Oxide	AA
R2519	VRS-CY1JF562J	J	5.6k	1/16W Metal Oxide	AA
R2520	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2521	VRS-TX2HF100J	J	10	1/2W Metal Oxide	AA
R2522	VRS-TX2HF100J	J	10	1/2W Metal Oxide	AA
R2523	VRS-TX2HF100J	J	10	1/2W Metal Oxide	AA
R2524	VRS-TX2HF100J	J	10	1/2W Metal Oxide	AA
R2526	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2527	VRS-CY1JF562J	J	5.6k	1/16W Metal Oxide	AA
R2530	VRS-CY1JF184J	J	180k	1/16W Metal Oxide	AA
R2531	VRN-CY1JF242D	J	2.4k	1/16W Metal Film	AB
R2532	VRS-CY1JF472J	J	4.7k	1/16W Metal Oxide	AA
R2535	VRS-TX2HF100J	J	10	1/2W Metal Oxide	AA
R2536	VRS-TX2HF100J	J	10	1/2W Metal Oxide	AA
R2537	VRS-TX2HF100J	J	10	1/2W Metal Oxide	AA
R2538	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2539	VRS-TX2HF100J	J	10	1/2W Metal Oxide	AA
R2540	VRS-TX2HF100J	J	10	1/2W Metal Oxide	AA
R2541	VRS-TX2HF100J	J	10	1/2W Metal Oxide	AA
R2542	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2543	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2544	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2545	VRS-CY1JF153J	J	15k	1/16W Metal Oxide	AA
R2546	VRS-CY1JF223J	J	22k	1/16W Metal Oxide	AA
R2547	VRS-CY1JF223J	J	22k	1/16W Metal Oxide	AA
R2548	VRS-CY1JF223J	J	22k	1/16W Metal Oxide	AA
R2549	VRS-CY1JF273J	J	27k	1/16W Metal Oxide	AA
R2550	VRS-CY1JF682J	J	6.8k	1/16W Metal Oxide	AA
R2551	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R2552	VRS-CY1JF562J	J	5.6k	1/16W Metal Oxide	AA
R2553	VRS-CY1JF393J	J	39k	1/16W Metal Oxide	AA
R2554	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R2555	VRS-CY1JF223J	J	22k	1/16W Metal Oxide	AA
R2556	VRS-CY1JF223J	J	22k	1/16W Metal Oxide	AA
R2557	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2558	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R2559	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2560	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA

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OUTPUT UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
R2561	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R2562	VRS-CY1JF822J	J	8.2k 1/16W Metal Oxide	AA
R2563	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R2564	VRS-TX2HF2R2J	J	2.2 1/2W Metal Oxide	AB
R2567	VRS-CY1JF000J	J	00 1/16W Metal Oxide	AA
R2568	VRS-CY1JF000J	J	00 1/16W Metal Oxide	AA
R2571	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R2572	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R2573	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R2576	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R2577	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R2578	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R2581	VRS-CY1JF390J	J	39 1/16W Metal Oxide	AA
R2582	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R2583	VRS-TX2HF1R0J	J	1.0 1/2W Metal Oxide	AA
R2584	VRS-TX2HF1R0J	J	1.0 1/2W Metal Oxide	AA
R2585	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R2586	VRS-TX2HF3R3J	J	3.3 1/2W Metal Oxide	AB
R2587	VRS-TX2HF3R3J	J	3.3 1/2W Metal Oxide	AB
R2588	VRS-TX2HF3R3J	J	3.3 1/2W Metal Oxide	AB
R2589	VRS-TX2HF3R3J	J	3.3 1/2W Metal Oxide	AB
R2590	VRS-TX2HF3R3J	J	3.3 1/2W Metal Oxide	AB
R2591	VRS-TX2HF3R3J	J	3.3 1/2W Metal Oxide	AB
R2592	VRS-TX2HF1R0J	J	1.0 1/2W Metal Oxide	AA
R4332	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA

SWITCH

S2001	QSW-K0065GEZZ	J	Switch	AC

MISCELLANEOUS PARTS

FB1001	RBLN-0060CEZZ	J	Ferrite Bead	AC
FB1002	RBLN-0060CEZZ	J	Ferrite Bead	AC
FB1019	RBLN-0060CEZZ	J	Ferrite Bead	AC
FB1020	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1021	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1022	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1023	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1024	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1025	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1026	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1028	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1029	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1030	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1031	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1201	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB2001	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB2002	RBLN-0060CEZZ	J	Ferrite Bead	AC
FB2003	RBLN-0060CEZZ	J	Ferrite Bead	AC
FB2501	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB2502	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB2503	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB2504	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB2505	RBLN-0065CEZZ	J	Ferrite Bead	AB
FB2506	RBLN-0065CEZZ	J	Ferrite Bead	AB
FB2507	RBLN-0065CEZZ	J	Ferrite Bead	AB
FB2508	RBLN-0065CEZZ	J	Ferrite Bead	AB
FB2509	RBLN-0065CEZZ	J	Ferrite Bead	AB
FB2510	RBLN-0065CEZZ	J	Ferrite Bead	AB
FB2511	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB2512	RBLN-0062CEZZ	J	Ferrite Bead	AC
P1001	QPLGN0182FJZZ	J	Plug, 10-Pin (SO)	AD
P1002	QPLGN0520REZZ	J	Plug, 5-Pin	AB
P2001	QPLGN0978GEZZ	J	Plug, 9-Pin (LE)	AC
P2003	QPLGN0578GEZZ	J	Plug, 5-Pin (FA)	AB
P2004	QPLGN0174FJZZ	J	Plug, 2-Pin (F)	AC
P2501	QPLGN0174FJZZ	J	Plug, 2-Pin (Q)	AC
P2502	QPLGN0264TAZZ	J	Plug, 2-Pin (L)	AC
P2503	QPLGN0176FJZZ	J	Plug, 4-Pin (FB)	AD
P2504	QPLGN0175FJZZ	J	Plug, 3-Pin (FN)	AD
P2505	QPLGN0175FJZZ	J	Plug, 3-Pin (FF)	AD
P2506	QPLGN0179FJZZ	J	Plug, 7-Pin (EB)	AD
P2507	QPLGN0464TAZZ	J	Plug, 4-Pin (AZ)	AC
P2508	QPLGN0177FJZZ	J	Plug, 5-Pin (AS)	AD
P2509	QPLGN0378GEZZ	J	Plug, 3-Pin (PC)	AB
P2510	QPLGN0184FJZZ	J	Plug, 12-Pin (EA)	AE
SC1001	QSOCZ7051CEZZ	J	Socket, 70-Pin	AR
SC1002	QSOCN1069CEZZ	J	Socket, 10-Pin (EC)	AD
SC1013	QSOCN2436TAZZ	J	Socket, 24-Pin	AH
SC1014	QSOCN2436TAZZ	J	Socket, 24-Pin	AH
SC1015	QSOCN2436TAZZ	J	Socket, 24-Pin	AH
SC2001	QSOCN1236TAZZ	J	Socket, 12-Pin (KY)	AD
SC2002	QSOCZ6434GEZZ	J	Socket	AG
TP1030	QLUGP0111TAFW	J	Lug	AA
TP1031	QLUGP0111TAFW	J	Lug	AA
TP1032	QLUGP0111TAFW	J	Lug	AA
TP1033	QLUGP0111TAFW	J	Lug	AA
TP1034	QLUGP0111TAFW	J	Lug	AA
TP1035	QLUGP0111TAFW	J	Lug	AA
TP1050	QLUGP0111TAFW	J	Lug	AA

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INPUT UNIT

INTEGRATED SIRCUITS

Ref. No.	Part No.	★	Description	Code
IC401	VHiCXA2069Q-1	J	Cxa2069Q	AR
IC402	VHiCXA1839Q-1	J	Cxa1839	AZ
IC404	RH-iX2174CEZZ	J	MC74HC4538FR	AG
IC405	VHi24LC21//-1	J	24LC21	AN
IC406	VHiTL712CPS-1	J	TI712CPS	AL
IC407	VHiTL712CPS-1	J	TI712CPS	AL
IC408	VHiTL712CPS-1	J	TI712CPS	AL
IC409	VHiUPD4721G-1	J	UPD4721G	AQ
IC410	VHiNJM2283F-1	J	NJM2283F	AF
IC411	VHiM62320FP-1	J	M62320FP	AK
IC412	VHiMC14577F-1	J	MC14577F	AG
IC413	VHiMC14577F-1	J	MC14577F	AG
IC414	VHiTC4W53U/-1	J	TC4W53U	AF
IC501	VHiNJM2060M-1	J	NJM2060M	AE
IC502	VHiPQ09TZ11-1	J	PQ09TZ11	AH

TRANSISTORS

Ref. No.	Part No.	★	Description	Code
Q301	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q302	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q401	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q404	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q405	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q408	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q411	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q412	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q413	VSDTC144EK/-1	J	DTC144EK	AB
Q414	VSUPUMZ1///-1	J	UPUMZ1	AC
Q416	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q420	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q421	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q422	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q501	VS2SC2412KQ-1	J	2SC2412KQ	AA

DIODES

Ref. No.	Part No.	★	Description	Code
D301	RH-EX1054CEZZ	J	Zener Diode	AC
D302	RH-EX1054CEZZ	J	Zener Diode	AC
D303	RH-EX1230CEZZ	J	Zener Diode	AB
D401	RH-EX1054CEZZ	J	Zener Diode	AC
D402	RH-EX1054CEZZ	J	Zener Diode	AC
D404	RH-EX1054CEZZ	J	Zener Diode	AC
D405	RH-EX1054CEZZ	J	Zener Diode	AC
D406	RH-EX1054CEZZ	J	Zener Diode	AC
D407	RH-EX1054CEZZ	J	Zener Diode	AC
D409	RH-EX1054CEZZ	J	Zener Diode	AC
D410	RH-EX1054CEZZ	J	Zener Diode	AC
D411	RH-EX1054CEZZ	J	Zener Diode	AC
D412	RH-EX1054CEZZ	J	Zener Diode	AC
D413	RH-EX1054CEZZ	J	Zener Diode	AC
D415	RH-EX1054CEZZ	J	Zener Diode	AC
D416	RH-EX1054CEZZ	J	Zener Diode	AC
D417	RH-EX1054CEZZ	J	Zener Diode	AC
D418	RH-EX1054CEZZ	J	Zener Diode	AC
D421	RH-EX1054CEZZ	J	Zener Diode	AC
D422	RH-EX1054CEZZ	J	Zener Diode	AC
D423	VHDMA152WA/-1	J	Diode	AA
D424	VHDMA152WA/-1	J	Diode	AA
D425	VHDMA152WA/-1	J	Diode	AA
D426	VHDMA152WA/-1	J	Diode	AA
D427	VHDMA3120WA-1	J	Diode	AK
D428	VHDMA3120WA-1	J	Diode	AK
D429	RH-EX1054CEZZ	J	Zener Diode	AC
D430	RH-EX1054CEZZ	J	Zener Diode	AC
D431	RH-EX1054CEZZ	J	Zener Diode	AC
D432	RH-EX1054CEZZ	J	Zener Diode	AC
D433	RH-EX1054CEZZ	J	Zener Diode	AC
D434	RH-EX1054CEZZ	J	Zener Diode	AC
D435	RH-EX1054CEZZ	J	Zener Diode	AC
D436	RH-EX1054CEZZ	J	Zener Diode	AC
D437	RH-EX1054CEZZ	J	Zener Diode	AC
D501	VHDDAN202K/-1	J	Diode	AB
D502	VHDDAN202K/-1	J	Diode	AB

COIL

Ref. No.	Part No.	★	Description	Code
L401	VP-1M100J1R6N	J	Peaking 10µH	AC

CAPACITORS

Ref. No.	Part No.	★				Code
C301	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C302	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C303	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C304	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C305	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C306	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C307	VCE9PF1CW106M	J	10	16V	Elect.(N.P)	AC
C308	VCE9PF1CW106M	J	10	16V	Elect.(N.P)	AC
C309	VCE9PF1CW106M	J	10	16V	Elect.(N.P)	AC
C310	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C311	VCE9PF1CW106M	J	10	16V	Elect.(N.P)	AC
C312	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C313	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C401	VCEAPF1HW474M	J	0.47	50V	Electrolytic	AB
C402	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C403	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C404	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C405	VCEAPF1HW474M	J	0.47	50V	Electrolytic	AB
C406	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C407	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C408	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C409	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C410	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C411	VCKYCY1AF105Z	J	1.0	10V	Ceramic	AC
C412	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C413	VCEAPX0JW227M	J	220	6.3V	Electrolytic	AD
C416	VCCCCY1EH681J	J	680p	25V	Ceramic	AB
C417	VCCCCY1EH681J	J	680p	25V	Ceramic	AB
C419	VCEAPF1HW474M	J	0.47	50V	Electrolytic	AB
C420	VCEAPF1HW474M	J	0.47	50V	Electrolytic	AB
C421	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C422	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA

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INPUT UNIT (Continued)

Ref. No.	Part No.	★				Code
C424	VCCCCY1EH681J	J	680p	25V	Ceramic	AB
C425	VCCCCY1EH681J	J	680p	25V	Ceramic	AB
C426	VCCCCY1HH271J	J	270p	50V	Ceramic	AA
C427	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C428	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C429	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C430	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C431	VCE9PF1CW106M	J	10	16V	Elect.(N.P)	AC
C432	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C433	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C434	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C435	VCE9PF1CW106M	J	10	16V	Elect.(N.P)	AC
C436	VCEAPF1HW224M	J	0.22	50V	Electrolytic	
C437	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C438	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C439	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C440	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C446	VCEAPF0JW226M	J	22	6.3V	Electrolytic	AB
C447	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C448	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C449	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C450	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C451	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C452	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C453	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C454	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C455	VCKYCY1AF105Z	J	1.0	10V	Ceramic	AC
C456	VCEAPF1HW474M	J	0.47	50V	Electrolytic	AB
C457	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C458	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C459	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C460	VCCCCY1HH470J	J	47p	50V	Ceramic	AA
C461	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C462	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C463	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C466	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C467	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C468	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C469	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C470	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C471	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C472	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C473	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C474	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C475	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C476	VCEAPF1HW225M	J	2.2	50V	Electrolytic	AB
C477	VCEAPF1HW225M	J	2.2	50V	Electrolytic	AB
C478	VCEAPF1HW225M	J	2.2	50V	Electrolytic	AB
C479	VCEAPF1HW225M	J	2.2	50V	Electrolytic	AB
C480	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C481	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C482	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C484	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C485	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C486	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C487	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C489	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C490	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C491	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C493	VCEAPF1HW105M	J	1.0	50V	Electrolytic	AB
C494	VCEAPF1HW105M	J	1.0	50V	Electrolytic	AB
C495	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C496	VCEAPF0JW226M	J	22	6.3V	Electrolytic	AB
C497	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C501	VCEAPF1HW105M	J	1.0	50V	Electrolytic	AB
C502	VCCCCY1EH561J	J	560p	25V	Ceramic	AA
C503	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C504	VCEAPF1HW225M	J	2.2	50V	Electrolytic	AB
C505	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C506	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C507	VCEAPX1CW227M	J	220	16V	Electrolytic	AD

RESISTORS

R100	VRS-TV1JD750J	J	75	1/16W	Metal Oxide	AA
R101	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R102	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R103	VRS-TV1JD750J	J	75	1/16W	Metal Oxide	AA
R104	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R105	VRS-TV1JD750J	J	75	1/16W	Metal Oxide	AA
R106	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R107	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R108	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R109	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R113	VRS-CY1JF000J	J	00	1/16W	Metal Oxide	AA
R114	VRS-CY1JF000J	J	00	1/16W	Metal Oxide	AA
R115	VRS-CY1JF000J	J	00	1/16W	Metal Oxide	AA
R116	VRS-CY1JF000J	J	00	1/16W	Metal Oxide	AA
R117	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R118	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R119	VRS-CY1JF000J	J	00	1/16W	Metal Oxide	AA
R120	VRS-CY1JF000J	J	00	1/16W	Metal Oxide	AA
R121	VRS-CY1JF273J	J	27k	1/16W	Metal Oxide	AA
R122	VRS-CY1JF273J	J	27k	1/16W	Metal Oxide	AA
R125	VRS-CY1JF000J	J	00	1/16W	Metal Oxide	AA
R126	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R127	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R128	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R129	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R130	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R131	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R132	VRN-CY1JF103D	J	10k	1/16W	Metal Film	AA
R134	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R135	VRS-CY1JF184F	J	180k	1/16W	Metal Oxide	AA
R136	VRS-CY1JF750J	J	75	1/16W	Metal Oxide	AA
R140	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R141	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R142	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R143	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R144	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA

DUNTK9757DE01
INPUT UNIT (Continued)

Ref. No.	Part No.	★		Description	Code
R145	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R146	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R147	VRS-TW2ED750J	J	75	1/4W Metal Oxide	AA
R148	VRS-TW2ED750J	J	75	1/4W Metal Oxide	AA
R149	VRS-TW2ED750J	J	75	1/4W Metal Oxide	AA
R151	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R152	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R153	VRS-CY1JF271J	J	270	1/16W Metal Oxide	AA
R154	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R155	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R156	VRS-CY1JF392J	J	3.9k	1/16W Metal Oxide	AA
R157	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R158	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R159	VRS-CY1JF271J	J	270	1/16W Metal Oxide	AA
R160	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R161	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R162	VRS-CY1JF392J	J	3.9k	1/16W Metal Oxide	AA
R163	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R164	VRS-CY1JF271J	J	270	1/16W Metal Oxide	AA
R165	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R166	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R167	VRS-CY1JF392J	J	3.9k	1/16W Metal Oxide	AA
R168	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R169	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R170	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R171	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R172	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R173	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R174	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R175	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R176	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R177	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R179	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R180	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R181	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R184	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R185	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R187	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R188	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R189	VRS-CB1JF333J	J	33k	1/16W Metal Oxide	AC
R190	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R191	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R192	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R193	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R194	VRS-CY1JF102J	J	1k	1/16W Metal Oxide	AA
R195	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R301	VRS-CY1JF223J	J	22k	1/16W Metal Oxide	AA
R302	VRS-CY1JF223J	J	22k	1/16W Metal Oxide	AA
R303	VRS-CY1JF223J	J	22k	1/16W Metal Oxide	AA
R304	VRS-CY1JF223J	J	22k	1/16W Metal Oxide	AA
R305	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R306	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R307	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R308	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R309	VRS-CY1JF271J	J	270	1/16W Metal Oxide	AA
R310	VRS-CY1JF561J	J	560	1/16W Metal Oxide	AA
R311	VRS-CY1JF271J	J	270	1/16W Metal Oxide	AA
R312	VRS-CY1JF561J	J	560	1/16W Metal Oxide	AA
R313	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R314	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R315	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R318	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R319	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R320	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R321	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R322	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R325	VRS-CY1JF564J	J	560k	1/16W Metal Oxide	AA
R326	VRS-CY1JF564J	J	560k	1/16W Metal Oxide	AA
R401	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R402	VRS-TV1JD750J	J	75	1/16W Metal Oxide	AA
R403	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R404	VRS-CY1JF274J	J	270k	1/16W Metal Oxide	AA
R405	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R406	VRS-TV1JD750J	J	75	1/16W Metal Oxide	AA
R407	VRS-TV1JD750J	J	75	1/16W Metal Oxide	AA
R408	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R409	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R410	VRS-TV1JD750J	J	75	1/16W Metal Oxide	AA
R411	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R412	VRS-CY1JF274J	J	270k	1/16W Metal Oxide	AA
R413	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R414	VRS-TV1JD750J	J	75	1/16W Metal Oxide	AA
R415	VRS-TV1JD750J	J	75	1/16W Metal Oxide	AA
R416	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R417	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R418	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R419	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R420	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R421	VRS-CY1JF000J	J	00	1/16W Metal Oxide	AA
R422	VRS-CY1JF472F	J	4.7k	1/16W Metal Oxide	AA
R423	VRS-CY1JF362F	J	3.6k	1/16W Metal Oxide	AA
R425	VRS-TV1JD750J	J	75	1/16W Metal Oxide	AA
R426	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R427	VRS-TV1JD750J	J	75	1/16W Metal Oxide	AA
R428	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R429	VRS-TV1JD750J	J	75	1/16W Metal Oxide	AA
R430	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R431	VRS-CY1JF104J	J	100k	1/16W Metal Oxide	AA
R432	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R433	VRS-CY1JF223J	J	22k	1/16W Metal Oxide	AA
R434	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R435	VRS-CY1JF223J	J	22k	1/16W Metal Oxide	AA
R436	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R437	VRS-CY1JF392J	J	3.9k	1/16W Metal Oxide	AA
R438	VRS-CY1JF750J	J	75	1/16W Metal Oxide	AA
R439	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R440	VRS-CY1JF223J	J	22k	1/16W Metal Oxide	AA
R441	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R442	VRS-CY1JF682J	J	6.8k	1/16W Metal Oxide	AA

DUNTK9757DE01
INPUT UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
R443	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R444	VRS-CY1JF682J	J	6.8k 1/16W Metal Oxide	AA
R445	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R446	VRS-CY1JF750J	J	75 1/16W Metal Oxide	AA
R447	VRS-CY1JF223J	J	22k 1/16W Metal Oxide	AA
R448	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R450	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R451	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R452	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R453	VRS-CY1JF223J	J	22k 1/16W Metal Oxide	AA
R454	VRS-CY1JF100J	J	10 1/16W Metal Oxide	AA
R455	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R456	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R457	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R458	VRS-TW2ED221J	J	220 1/4W Metal Oxide	AA
R463	VRS-CY1JF681J	J	680 1/16W Metal Oxide	AA
R464	VRS-CY1JF273J	J	27k 1/16W Metal Oxide	AA
R465	VRS-CY1JF000J	J	00 1/16W Metal Oxide	AA
R466	VRS-CY1JF153J	J	15k 1/16W Metal Oxide	AA
R467	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R471	VRS-CY1JF152J	J	1.5k 1/16W Metal Oxide	AA
R472	VRS-CY1JF273J	J	27k 1/16W Metal Oxide	AA
R473	VRS-CY1JF153J	J	15k 1/16W Metal Oxide	AA
R474	VRS-CY1JF000J	J	00 1/16W Metal Oxide	AA
R478	VRS-CY1JF152J	J	1.5k 1/16W Metal Oxide	AA
R479	VRS-CY1JF391J	J	390 1/16W Metal Oxide	AA
R480	VRS-CY1JF153J	J	15k 1/16W Metal Oxide	AA
R481	VRS-CY1JF471J	J	470 1/16W Metal Oxide	AA
R482	VRS-CY1JF123J	J	12k 1/16W Metal Oxide	AA
R484	VRS-CY1JF000J	J	00 1/16W Metal Oxide	AA
R485	VRS-CY1JF273J	J	27k 1/16W Metal Oxide	AA
R486	VRS-CY1JF153J	J	15k 1/16W Metal Oxide	AA
R487	VRS-CY1JF682J	J	6.8k 1/16W Metal Oxide	AA
R488	VRS-CY1JF332J	J	3.3k 1/16W Metal Oxide	AA
R489	VRS-CY1JF681J	J	680 1/16W Metal Oxide	AA
R490	VRS-CY1JF152J	J	1.5k 1/16W Metal Oxide	AA
R492	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R499	VRS-CY1JF681J	J	680 1/16W Metal Oxide	AA
R501	VRS-CY1JF471J	J	470 1/16W Metal Oxide	AA
R502	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R503	VRS-CY1JF563J	J	56k 1/16W Metal Oxide	AA
R504	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R505	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R506	VRS-CY1JF223J	J	22k 1/16W Metal Oxide	AA
R507	VRS-CY1JF154J	J	150k 1/16W Metal Oxide	AA
R508	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R509	VRS-CY1JF393J	J	39k 1/16W Metal Oxide	AA
R510	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R511	VRS-CY1JF683J	J	68k 1/16W Metal Oxide	AA
R512	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R513	VRS-CY1JF124J	J	120k 1/16W Metal Oxide	AA
R514	VRS-CY1JF393J	J	39k 1/16W Metal Oxide	AA
R515	VRS-TX2HF120J	J	12 1/2W Metal Oxide	AA
R516	VRS-TX2HF120J	J	12 1/2W Metal Oxide	AA
R517	VRS-TX2HF120J	J	12 1/2W Metal Oxide	AA
R518	VRS-TX2HF120J	J	12 1/2W Metal Oxide	AA
R519	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R520	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R521	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R522	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R523	VRS-CY1JF152F	J	1.5k 1/16W Metal Oxide	AA
R524	VRS-CY1JF152F	J	1.5k 1/16W Metal Oxide	AA
R525	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R526	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R527	VRS-CY1JF152F	J	1.5k 1/16W Metal Oxide	AA
R528	VRS-CY1JF152F	J	1.5k 1/16W Metal Oxide	AA
R529	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R530	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R531	VRS-CY1JF152F	J	1.5k 1/16W Metal Oxide	AA
R532	VRS-CY1JF152F	J	1.5k 1/16W Metal Oxide	AA
R533	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R534	VRS-CY1JF332F	J	3.3k 1/16W Metal Oxide	AA
R535	VRS-CY1JF332F	J	3.3k 1/16W Metal Oxide	AA
R536	VRS-CY1JF332F	J	3.3k 1/16W Metal Oxide	AA

MISCELLANEOUS PARTS

FB401	RBLN-0060TAZZ	J	Ferrite Bead	AB
FB402	RBLN-0060TAZZ	J	Ferrite Bead	AB
FB403	RBLN-0060TAZZ	J	Ferrite Bead	AB
FB406	RBLN-0060TAZZ	J	Ferrite Bead	AB
FB407	RBLN-0060TAZZ	J	Ferrite Bead	AB
FB408	RBLN-0060TAZZ	J	Ferrite Bead	AB
FB409	RBLN-0060TAZZ	J	Ferrite Bead	AB
FB410	RBLN-0060TAZZ	J	Ferrite Bead	AB
FB411	RBLN-0061TAZZ	J	Ferrite Bead	AD
FB412	RBLN-0061TAZZ	J	Ferrite Bead	AD
J401	QSOCD0439CEZZ	J	Socket, S-Video 1 IN	AF
J402	QJAKE0191CEZZ	J	Jack, Video 1 IN	AG
J403	QSOCD0439CEZZ	J	Socket, S-Video 2 IN	AF
J404	QJAKE0191CEZZ	J	Jack, Video 2 IN	AG
J405	QJAKG0056CEZZ	J	Jack, Com-Video 1 IN	AG
J406	QJAKF0050CEZZ	J	Jack, Com-Video 1 Audio	AG
J407	QJAKG0056CEZZ	J	Jack, Com-Video 2 IN	AG
J408	QJAKF0050CEZZ	J	Jack, Com-Video 2 Audio	AG
J409	QJAKE0191CEZZ	J	Jack, Monitor Output	AG
J410	QJAKF0050CEZZ	J	Jack, Video 1 IN Audio	AG
J411	QJAKF0050CEZZ	J	Jack, Monitor Output Audio	AG
J412	QJAKF0050CEZZ	J	Jack, Video 2 IN Audio	AG
SC401	QSOCZ0012FJZZ	J	Socket, 28-Pin (CA)	AF
SC402	QSOCZ0012FJZZ	J	Socket, 28-Pin (TN)	AF
SC403	QSOCN0344FJZZ	J	Socket, Computer IN	AM
SC404	QSOCN0345FJZZ	J	Socket, RS232C	AM

Ref. No.	Part No.	★	Description	Code

DUNTK9755DE01
INFRARED R/C RECEIVER UNIT

CAPACITOR

C7501	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC

RESISTORS

R7501	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R7502	VRS-CY1JF220J	J	22	1/16W	Metal Oxide	AA

MISCELLANEOUS PARTS

P7501	QPLGN0378GEZZ	J	Plug 3-pin (RC)	AB
RMC7501	RRMCU0225CEZZ	J	Infrared R/C Receiver	AK
	PSLDC3060CEFW	J	Shield	AF

RUNTK0630CEZZ
AC-SW UNIT

DIODE

V701	95KUEZ0600ZZ	J	Varistor, ENC241D-14AS	AF

COILS

⚠ L701	95KUKZ0855ZZ	J	Filter	ADR2510-030T	AR
⚠ L702	95KUKZ0855ZZ	J	Filter	ADR2510-030T	AR

CAPACITORS

C701	95KUGFZ474GQ	J	0.47	275V	Film	AK
⚠ C702	95KUGZ1080ZZ	J	0.22	275V	Film	AF
C703	95KUGZ1109ZZ	J	0.47	275V	Film	AK
⚠ C704	95KUGCM332BP	J	3300P	250V	Ceramic	AE

RESISTORS

⚠ R701	95KUEEC474CH	J	470k	1/2W	Carbon	AC
⚠ R702	95KUEEC474CH	J	470k	1/2W	Carbon	AC
⚠ R704	95KUEZ0608ZZ	J	3.9M	1/2W	Solid	AD
⚠ R705	95KUEZ0608ZZ	J	3.9M	1/2W	Solid	AD

SWITCH

⚠ SW701	QSW-P0591CEZZ	J	Main Power Switch	AQ

MISCELLANEOUS PARTS

⚠ F701	95KPJCAF1202	J	Fuse, 12A, 125V	AH
	95KPKZ1167ZZ	J	Base Pin 3-Pin (BA)	AK
	95KPKZ1168ZZ	J	Base Pin 2-Pin (PA)	AD
	95KPKZ1168ZZ	J	Base Pin 2-Pin (PE)	AD
	95KPZZ0848ZZ	J	Fuse Holder	AC

DUNTK9382DE01
LED UNIT

INTEGRATED CIRCUITS

IC7301	VHiTDA1517/-1	J	TDA1517/N2	AL

DIODES

D7301	RH-PX0287CEZZ	J	LED, Power Indicator	AC
D7302	RH-PX0287CEZZ	J	LED, Lamp Indicator	AC
D7303	RH-PX0175CEZZ	J	LED, Temp Indicator	AB

CAPACITORS

C7301	VCE9EA1CW475M	J	4.7	16V	Elect. (N.P)	AB
C7302	VCEAGA1CW107M	J	100	16V	Electrolytic	AB
C7303	VCEAGA1EW108M	J	1000	25V	Electrolytic	AD
C7304	VCEAGA1EW108M	J	1000	25V	Electrolytic	AD
C7305	VCE9EA1CW475M	J	4.7	16V	Elect. (N.P)	AB
C7306	VCEAGA1EW477M	J	470	25V	Electrolytic	AD
C7307	VCQYTA1HM104J	J	0.1	50V	Mylar	AA
C7308	VCEAEA1VW475M	J	4.7	35V	Electrolytic	AB

RESISTORS

R7301	VRD-RA2HD102J	J	1k	1/2W	Carbon	AA
R7302	VRD-RA2HD102J	J	1k	1/2W	Carbon	AA
R7303	VRD-RA2HD102J	J	1k	1/2W	Carbon	AA

SWITCH

S7301	QSW-P0577CEZZ	J	Power Switch	AE

MISCELLANEOUS PARTS

FB7301	RBLN-0037CEZZ	J	Ferrite Bead	AB
FB7302	RBLN-0037CEZZ	J	Ferrite Bead	AB
FB7303	RBLN-0037CEZZ	J	Ferrite Bead	AB
FB7304	RBLN-0037CEZZ	J	Ferrite Bead	AB
FB7305	RBLN-0037CEZZ	J	Ferrite Bead	AB
FB7306	RBLN-0037CEZZ	J	Ferrite Bead	AB
P7301	QPLGN0978GEZZ	J	Plug 9-pin (LE)	AC
P7302	QPLGN1078GEZZ	J	Plug 10-pin (SO)	AC
P7303	QPLGN0478GEZZ	J	Plug 4-pin (SP)	AB
	PRDAR1521CEFW	J	Heat Sink	AL
	LHLDZ1814CEZZ	J	Holder x1	AD
	LHLDW1037CEZZ	J	Holder x1	AA
	LX-BZ3220CEFD	J	Screw x1	AA

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INTEGRATED CIRCUITS

Ref. No.	Part No.	★	Description	Code
IC101	95KUCZ0091ZZ	J	M5T494P	AK
IC701	95KUCY0006AK	J	UPC1093T (Chip)	AF
IC702	95KUCB0172AZ	J	RA0323AA	AL
IC703	95KUCB0145AZ	J	RA3011AA	AK
IC704	95KUCC0015AZ	J	M5239L	AF
IC705	95KUCY0006AK	J	UPC1093T (Chip)	AF

TRANSISTORS

Ref. No.	Part No.	★	Description	Code
Q102	95KUAY0046AK	J	2SB736 (Chip)	AC
Q103	95KUAY0012AK	J	2SA812 (Chip)	AB
Q104	95KUAY0013AK	J	2SC1623 (Chip)	AB
Q105	95KUAY0012AK	J	2SA812 (Chip)	AB
Q106	95KUAY0013AK	J	2SC1623 (Chip)	AB
Q107	95KUAY0013AK	J	2SC1623 (Chip)	AB
Q108	95KUAY0013AK	J	2SC1623 (Chip)	AB
Q701	95KUAG0161CZ	J	FET FS5KM-18A	AM
Q702	95KUAC0056BK	J	2SC2002	AD
Q703	95KUAC0027CK	J	2SC2655	AD
Q704	95KUAY0013AK	J	2SC1623 (Chip)	AB
Q705	95KUAG0161CZ	J	FET FS5KM-18A	AM
Q706	95KUAC0056BK	J	2SC2002	AD
Q707	95KUAC0027CK	J	2SC2655	AD
Q708	95KUAY0013AK	J	2SC1623 (Chip)	AB
Q1701	95KUAG0099DZ	J	FET 2SK1938	AV
Q1702	95KUAG0099DZ	J	FET 2SK1938	AV
Q1703	95KUAY0041AK	J	2SA1797 (Chip)	AE
Q1704	95KUAY0041AK	J	2SA1797 (Chip)	AE
Q1705	95KUAC0270BZ	J	2SC3623	AD
Q1706	95KUAC0234AG	J	2SC3866	AM
Q1707	95KUAB0010CZ	J	2SB744	AF
Q1708	95KUAC0262BZ	J	2SC4672 (Chip)	AE

DIODES

Ref. No.	Part No.	★	Description	Code
D101	95KUBY0020AK	J	Diode (Chip) 1SS355	AC
D102	95KUBY0020AK	J	Diode (Chip) 1SS355	AC
D103	95KUBY0020AK	J	Diode (Chip) 1SS355	AC
D104	95KUBY0020AK	J	Diode (Chip) 1SS355	AC
D105	95KUBY0020AK	J	Diode (Chip) 1SS355	AC
D106	95KUBY0020AK	J	Diode (Chip) 1SS355	AC
D107	95KUBY0020AK	J	Diode (Chip) 1SS355	AC
D701	95KUBC0248AK	J	Diode 05NU42	AC
D702	95KUBC0248AK	J	Diode 05NU42	AC
D703	95KUBC0125AK	J	Diode ERA15-01	AB
D704	95KUBA0005KZ	J	Diode 1SS55	AB
D705	95KUBA0005KZ	J	Diode 1SS55	AB
D706	95KUBA0005KZ	J	Diode 1SS55	AB
D707	95KUBY0020AK	J	Diode (Chip) 1SS355	AC
D708	95KUBY0020AK	J	Diode (Chip) 1SS355	AC
D709	95KUBC0264BE	J	Diode ERB32-02	AD
D710	95KUBA0042AZ	J	Diode YG802C09R	AK
D711	95KUBC0242DZ	J	Diode YG802C06R	AM
D712	95KUBY0020AK	J	Diode (Chip) 1SS355	AC
D713	95KUBC0242DZ	J	Diode F10P06Q	AM
D714	95KUBY0020AK	J	Diode (Chip) 1SS355	AC
D715	95KUBB0208SZ	J	Diode Stack YG902C2R	AH
D716	95KUBY0020AK	J	Diode (Chip) 1SS355	AC
D717	95KUBA0005KZ	J	Diode 1SS55	AB
D718	95KUBC0125AK	J	Diode ERA15-01	AB
D719	95KUBC0125DK	J	Diode ERA15-06	AB
D720	95KUBA0005KZ	J	Diode 1SS55	AB
D721	95KUBA0005KZ	J	Diode 1SS55	AB
D722	95KUBY0020AK	J	Diode (Chip) 1SS355	AC
D723	95KUBY0020AK	J	Diode (Chip) 1SS355	AC
D724	95KUBY0020AK	J	Diode (Chip) 1SS355	AC
D725	95KUBC0070AL	J	Diode ERA81-004	AD
D726	95KUBY0020AK	J	Diode (Chip) 1SS355	AC
D727	95KUBY0020AK	J	Diode (Chip) 1SS355	AC
D728	95KUBY0020AK	J	Diode (Chip) 1SS355	AC
D1701	95KUBC0221AK	J	Diode ERA18-02	AC
D1702	95KUBC0221AK	J	Diode ERA18-02	AC
D1703	95KUBC0190BK	J	Diode ERC38-05	AG
D1704	95KUBC0125DK	J	Diode ERA15-06	AB
D1705	95KUBY0020AK	J	Diode (Chip) 1SS355	AC
D1706	95KUBC0248AK	J	Diode 05NU42	AC
D1707	95KUBC0318AK	J	Diode 1R5NH41	AF
D1708	95KUBC0323AK	J	Diode 05NH45	AE
D1709	95KUBY0020AK	J	Diode (Chip) 1SS355	AC
D1710	95KUBC0221AK	J	Diode ERA18-02	AC
D1711	95KUBC0347AZ	J	Diode FSF10A60	AL
D1712	95KUBY0033AK	J	Diode (Chip) U1JU44-TE12L	AE
D1713	95KUBY0033AK	J	Diode (Chip) U1JU44-TE12L	AE
⚠ DS701	95KUBB0199AZ	J	Diode Stack RBV-1506	AN
⚠ DS702	95KUBB0148DZ	J	Diode Stack S1WB(A)60	AF
DS1701	95KUBC0288AZ	J	Diode S16L60	AQ
ZD102	95KUBXAD2R0A	J	Zener Diode (Chip) RD2.0SB	AC
ZD103	95KUBXAD6R2C	J	Zener Diode (Chip) RD6.2SB	AD
ZD104	95KUBXAD6R2C	J	Zener Diode (Chip) RD6.2SB	AD
ZD701	95KUBDAK270C	J	Zener Diode RD27ESAB2	AB
ZD702	95KUBDAK330C	J	Zener Diode RD33ESAB2	AB
ZD703	95KUBDAK270C	J	Zener Diode RD27ESAB2	AB
ZD704	95KUBDAK8R2C	J	Zener Diode RD8.2ESAB2	AB
ZD705	95KUBDAK240C	J	Zener Diode RD24ESAB2	AC
ZD1701	95KUBXAP120C	J	Zener Diode (Chip) PTZ TE-25 12B	AE
ZD1702	95KUBXAP120C	J	Zener Diode (Chip) PTZ TE-25 12B	AE
ZD1703	95KUBXAD300A	J	Zener Diode (Chip) RD30SB	AC
ZD1704	95KUBXAD100C	J	Zener Diode (Chip) RD10SB	AD
ZD1705	95KUBDAK180C	J	Zener Diode RD18ESAB	AB
ZD1706	95KUBDAK180C	J	Zener Diode RD18ESAB	AB
ZD1708	95KUBXAP300C	J	Zener Diode (Chip) PTZ TE-25 30B	AE
THY101	95KUDA0078AK	J	Thyristor CR02AM	AF
THY701	95KUDA0084ZZ	J	Thyristor CR04AM-12	AG
THY1701	95KUDA0083ZZ	J	Thyristor SF8JZ47	AM
THY1702	95KUDA0083ZZ	J	Thyristor SF8JZ47	AM

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POWER/BALLAST UNIT (Continued)

PACKAGED CIRCUIT

Ref. No.	Part No.	★	Description	Code
⚠ PC701	95KUDC0163BB	J	Photo Coupler PC123	AH
⚠ PC702	95KUDC0163BB	J	Photo Coupler PC123	AH
⚠ PC703	95KUDC0163BB	J	Photo Coupler PC123	AH
⚠ PC1701	95KUDC0163BB	J	Photo Coupler PC123	AH
⚠ PC1702	95KUDC0163BB	J	Photo Coupler PC123	AH

COIL AND TRANSFORMERS

Ref. No.	Part No.	★	Description	Code
L703	95KUKZ0714ZK	J	Coil LHL08TB8R2M	AE
L704	95KUKZ0432ZZ	J	Coil LHL08TB220K	AE
L705	95KUZZ0156ZZ	J	Coil RS208	AH
L706	95KUZZ0167ZZ	J	Coil RS207	AG
L1701	95KUKZ0850ZZ	J	Coil AM06651JAJ	BD
⚠ T701	95K830205001	J	Trans PTTN99	BC
⚠ T702	95K829205004	J	Trans PTTN100	BC
T1701	95K829195004	J	Trans DTTX03	BB
⚠ T1702	95K748295013	J	Trans J6B21-9001	BQ

CONTROLS

Ref. No.	Part No.	★	Description	Code
VR701	95KUFBA472DB	J	4.7k Output Adj.	AB
VR1701	95KUFBA103CX	J	10k Power Adj.	AC
VR1702	95KUFBA102CX	J	1k Power Adj.	AD
VR1703	95KUFBA103CX	J	10k Freguency Adj.	AC

CAPACITORS

Ref. No.	Part No.	★	Description			Code
C101	95KUGXEWD104	J	0.1	50V	Ceramic (Chip)	AD
C102	95KUGXETC105	J	1	16V	Ceramic (Chip)	AC
C103	95KUGXETF104	J	0.1	50V	Ceramic (Chip)	AB
C104	95KUGXALF102	J	1000p	50V	Ceramic (Chip)	AC
C105	95KUGXEWD104	J	0.1	25V	Ceramic (Chip)	AD
C106	95KUGXETC103	J	0.01	50V	Ceramic (Chip)	AB
C107	95KUGXETC105	J	1	16V	Ceramic (Chip)	AC
C108	95KUGAE100HN	J	10	35V	Electrolytic	AC
C109	95KUGXEWD104	J	0.1	50V	Ceramic (Chip)	AD
C110	95KUGXEWD104	J	0.1	50V	Ceramic (Chip)	AD
C111	95KUGAD470HN	J	47	25V	Electrolytic	AC
C112	95KUGAE101HN	J	100	35V	Electrolytic	AC
⚠ C706	95KUGCZ102HH	J	1000p		Ceramic	AD
C707	95KUGZ1162ZZ	J	1800	200V	Electrolytic	AX
C708	95KUGZ1162ZZ	J	1800	200V	Electrolytic	AX
C709	95KUGXFXT103	J	0.01	630V	Chip	AD
C710	95KUGCU222BR	J	2200p	1kV	Ceramic	AE
C711	95KUGXAEF223	J	0.022	50V	Ceramic (Chip)	AB
C712	95KUGXEWD104	J	0.1	25V	Ceramic (Chip)	AD
C713	95KUGFF473BQ	J	0.047	50V	Film	AB
C714	95KUGXAEF102	J	1000p	50V	Ceramic (Chip)	AA
C715	95KUGXEWD104	J	0.1	50V	Ceramic (Chip)	AD
C716	95KUGCS102AA	J	1000p	500V	Ceramic	AB
C717	95KUGAE181UR	J	180	35V	Electrolytic	AD
C719	95KUGCS331AA	J	330p	500V	Ceramic	AC
C720	95KUGAD152UG	J	1500	25V	Electrolytic	AG
C721	95KUGCS331AA	J	330p	500V	Ceramic	AC
C722	95KUGAB102UH	J	1000	10V	Electrolytic	AE
C723	95KUGXEWF473	J	0.047	50V	Electrolytic	AC
C724	95KUGAB221VA	J	220	10V	Electrolytic	AD
C725	95KUGAD101HN	J	100	25V	Electrolytic	AC
C726	95KUGCS331AA	J	330p	500V	Ceramic	AC
C727	95KUGAB222UG	J	2200	10V	Electrolytic	AG
C728	95KUGAB221VA	J	220	10V	Electrolytic	AD
C729	95KUGCS331AA	J	330p	500V	Ceramic	AC
C730	95KUGAD561UR	J	560	35V	Electrolytic	AE
C733	95KUGA0042ZZ	J	22	200V	Electrolytic	AF
C734	95KUGAD102HD	J	1000	35V	Electrolytic	AG
C735	95KUGXEWD104	J	0.1	50V	Ceramic (Chip)	AD
C736	95KUGAD101HN	J	100	25V	Electrolytic	AC
C737	95KUGXEWD104	J	0.1	25V	Ceramic (Chip)	AD
C739	95KUGCU151AK	J	150p	1kV	Ceramic	AC
C740	95KUGXAEF223	J	0.022	50V	Ceramic (Chip)	AB
C741	95KUGXEWD104	J	0.1	50V	Ceramic (Chip)	AD
C742	95KUGXEWD104	J	0.1	25V	Ceramic (Chip)	AD
C743	95KUGXEWD104	J	0.1	25V	Ceramic (Chip)	AD
C745	95KUGFF104BQ	J	0.047	50V	Film	AC
C746	95KUGCS331AA	J	330p	500V	Ceramic	AC
C747	95KUGAB121UQ	J	120	10V	Electrolytic	AD
C748	95KUGXEWF473	J	0.047	50V	Electrolytic	AC
C749	95KUGAB470HN	J	47	10V	Electrolytic	AB
C751	95KUGXEWD104	J	0.1	50V	Ceramic (Chip)	AD
C752	95KUGAF010HN	J	1	50V	Electrolytic	AB
C1701	95KUGFQ104FC	J	0.1	400V	Film	AF
C1702	95KUGCU681AK	J	680p	1kV	Ceramic	AD
C1703	95KUGFQ225HA	J	0.22	400V	Film	AK
C1704	95KUGCU102BV	J	1000p	1kV	Ceramic	AC
C1705	95KUGZ0995ZZ	J	0.22	400V	Film	AH
C1706	95KUGZ0955ZZ	J	0.22	400V	Film	AH
C1707	95KUGFL103HQ	J	0.01	400V	Film	AD
C1708	95KUGAE101PB	J	100	35V	Electrolytic	AD
C1711	95KUGAE560UQ	J	56	35V	Electrolytic	AD
C1745	95KUGFQ334FC	J	0.33	400V	Film	AG
C1746	95KUGFQ334FC	J	0.33	400V	Film	AG
C1747	95KUGCU472BM	J	4700p	1kV	Ceramic	AC

RESISTORS

Ref. No.	Part No.	★	Description			Code
R102	95KUEEC102CH	J	1k	1/2W	Carbon	AB
R103	95KUEXCAS102	J	1k	1/10W	Chip	AB
R104	95KUEXCAS332	J	3.3k	1/10W	Chip	AB
R105	95KUEXCAS393	J	39k	1/10W	Chip	AB
R106	95KUEXCAS333	J	33k	1/10W	Chip	AB
R107	95KUEXCAS103	J	10k	1/10W	Chip	AB
R108	95KUEXCAS103	J	10k	1/10W	Chip	AB
R109	95KUEXCAS103	J	10k	1/10W	Chip	AB
R110	95KUEXCAS272	J	2.7k	1/10W	Chip	AB
R111	95KUEXCAS331	J	330	1/10W	Chip	AB
R112	95KUEXCAS105	J	1M	1/10W	Chip	AB
R114	95KUEXCAU203	J	20k	1/10W	Chip	AB
R115	95KUEXCAS122	J	1.2k	1/10W	Chip	AB
R118	95KUEXCAS272	J	2.7k	1/10W	Chip	AB
R119	95KUEXCAU221	J	220	1/10W	Chip	AB
R120	95KUEXCAS102	J	1k	1/10W	Chip	AB
R121	95KUEXDAK472	J	4.7k	1/4W	Chip	AB

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Ref. No.	Part No.	★				Code
R122	95KUEXCAS103	J	10k	1/10W	Chip	AB
R123	95KUEXCAS103	J	10k	1/10W	Chip	AB
R124	95KUEXDAK222	J	2.2k	1/4W	Chip	AB
R128	95KUEXCAS102	J	1k	1/10W	Chip	AB
R129	95KUEXCAS222	J	2.2k	1/10W	Chip	AB
R130	95KUEXCAS103	J	10k	1/10W	Chip	AB
R131	95KUEXCAS103	J	10k	1/10W	Chip	AB
R132	95KUEXCAS472	J	4.7k	1/10W	Chip	AB
R133	95KUEXCAS472	J	4.7k	1/10W	Chip	AB
R134	95KUEXCAS103	J	10k	1/10W	Chip	AB
R135	95KUEXCAS103	J	10k	1/10W	Chip	AB
R136	95KUEXCAS102	J	1k	1/10W	Chip	AB
R137	95KUEXCAS103	J	10k	1/10W	Chip	AB
R138	95KUEXCAS223	J	22k	1/10W	Chip	AB
R142	95KUEXDAK103	J	10k	1/4W	Chip	AB
R143	95KUEXCAS103	J	10k	1/10W	Chip	AB
R144	95KUEXCAS103	J	10k	1/10W	Chip	AB
R703	95KUDC0242ZZ	J	Themistor			AL
R706	95KUEXDAS474	J	470k	1/2W	Chip	AC
R707	95KUEXDAS474	J	470k	1/2W	Chip	AC
R708	95KUEFD104BU	J	100k	1W	Metal Film	AC
R709	95KUEFD104BU	J	100k	1W	Metal Film	AC
R710	95KUEFF154BU	J	150k	3W	Metal Film	AD
R711	95KUEBER33AK	J	0.33	2W	Fuse Resistor	AF
R712	95KUEFDR33DB	J	0.33	1W	Metal Film	AC
R713	95KUEXDAK471	J	470	1/4W	Chip	AB
R714	95KUEXDAK183	J	18k	1/4W	Chip	AB
R715	95KUEXDAK331	J	330	1/4W	Chip	AB
R716	95KUEXDAK101	J	100	1/4W	Chip	AB
R717	95KUEXCAS102	J	1k	1/10W	Chip	AB
R718	95KUEBD1R0AF	J	1	1W	Fuse Resistor	AE
R719	95KUES3901CS	J	3.9k	1/4W	Precision Res.	AB
R720	95KUEEB473DC	J	47k	1/4W	Carbon	AB
R721	95KUEXDAK181	J	180	1/4W	Chip	AB
R722	95KUEEC122CH	J	1.2k	1/2W	Carbon	AB
R723	95KUEEC102CH	J	1k	1/2W	Carbon	AB
R724	95KUEXDAK221	J	220	1/4W	Chip	AB
R725	95KUEXDAK221	J	220	1/4W	Chip	AB
R726	95KUEXCAS472	J	4.7k	1/10W	Chip	AB
R727	95KUEXCAS122	J	1.2k	1/10W	Chip	AB
R728	95KUEXCAS222	J	2.2k	1/10W	Chip	AB
R729	95KUEBB100AY	J	10	1/4W	Fuse Resistor	AD
R730	95KUEEC122CH	J	1.2k	1/2W	Carbon	AB
R731	95KUEEC222CH	J	2.2k	1/2W	Carbon	AB
R732	95KUEBDR10AK	J	0.1	1W	Fuse Resistor	AE
R733	95KUEXEAF152	J	1.5k	1/2W	Chip	AC
R734	95KUEXCAS392	J	3.9k	1/10W	Chip	AB
R735	95KUEXCAS103	J	10k	1/10W	Chip	AB
R736	95KUEXCAS102	J	1k	1/10W	Chip	AB
R737	95KUEXCAU133	J	13k	1/10W	Chip	AB
R738	95KUEXCAU152	J	1.5k	1/10W	Chip	AB
R739	95KUEXCAS223	J	22k	1/10W	Chip	AB
R740	95KUEZ0486ZZ	J	Themistor			AH
R741	95KUEXDAK471	J	470	1/4W	Chip	AB
R742	95KUEXCAS822	J	8.2k	1/10W	Chip	AB
R743	95KUEXCAS123	J	12k	1/10W	Chip	AB
R744	95KUEXCAS103	J	10k	1/10W	Chip	AB
R745	95KUEXFAC273	J	27k	1W	Chip	AD
R746	95KUEXFAC273	J	27k	1W	Chip	AD
R747	95KUEXFAC273	J	27k	1W	Chip	AD
R748	95KUEXFAC473	J	47k	1W	Chip	AD
R749	95KUEXFAC473	J	47k	1W	Chip	AD
R750	95KUEZ0627ZZ	J	4.7	1/2W	Metal Film	AB
R751	95KUEXDAK471	J	470	1/4W	Chip	AB
R752	95KUEXDAK563	J	56k	1/4W	Chip	AB
R753	95KUEXDAK271	J	270	1/4W	Chip	AB
R754	95KUEEB102DC	J	1k	1/4W	Carbon	AC
R755	95KUEEB473DC	J	47k	1/4W	Carbon	AB
R756	95KUEXDAK181	J	180	1/4W	Chip	AB
R758	95KUEXCAS103	J	10k	1/10W	Chip	AB
R759	95KUEXCAS472	J	4.7k	1/10W	Chip	AB
R760	95KUEXDAK101	J	100	1/8W	Chip	AB
R761	95KUEXCAS122	J	1.2k	1/10W	Chip	AB
R762	95KUEXDAK221	J	220	1/4W	Chip	AB
R763	95KUEXCAS472	J	4.7k	1/10W	Chip	AB
R764	95KUEXCAU822	J	8.2k	1/10W	Chip	AB
R765	95KUEXCAU822	J	8.2k	1/10W	Chip	AB
R766	95KUEXDAK681	J	680	1/4W	Chip	AB
R767	95KUEXDAK102	J	1k	1/4W	Chip	AB
R768	95KUEXDAK221	J	220	1/4W	Chip	AB
R769	95KUEXCAS102	J	1k	1/10W	Chip	AB
R770	95KUEXCAS103	J	10k	1/10W	Chip	AB
R771	95KUEXDAK104	J	100k	1/4W	Chip	AB
R772	95KUEXCAS273	J	27k	1/10W	Chip	AC
R773	95KUEXDAS474	J	470k	1/2W	Chip	AC
R774	95KUEXDAS474	J	470k	1/2W	Chip	AC
R1701	95KUEXDAK102	J	1k	1/4W	Chip	AB
R1702	95KUEXDAK102	J	1k	1/4W	Chip	AB
R1703	95KUEFD220CF	J	22	1W	Metal Film	AB
R1704	95KUEXDAK102	J	1k	1/4W	Chip	AB
R1705	95KUEXDAK102	J	1k	1/4W	Chip	AB
R1706	95KUEFD220CF	J	22	1W	Metal Film	AB
R1707	95KUESR062DB	J	0.1	2W	Precision Res.	AF
R1708	95KUESR062DB	J	0.1	2W	Precision Res.	AF
R1710	95KUEFE223CW	J	22k	2W	Metal Film	AC
R1711	95KUEFE223CW	J	22k	2W	Metal Film	AC
R1712	95KUEFE183CW	J	18k	2W	Metal Film	AC
R1713	95KUEFE183CW	J	18k	2W	Metal Film	AC
R1714	95KUEXEAL684	J	680k	1/2W	Chip	AC
R1715	95KUEXEAL274	J	270k	1/2W	Chip	AC
R1716	95KUEXEAL473	J	47k	1/2W	Chip	AC
R1717	95KUEXDAK331	J	330	1/4W	Chip	AB
R1718	95KUEXDAK333	J	33k	1/4W	Chip	AB
R1719	95KUEXDAK102	J	1k	1/4W	Chip	AB
R1720	95KUEXCAS102	J	1k	1/4W	Chip	AB
R1721	95KUEXCAS271	J	270	1/4W	Chip	AB
R1722	95KUEXEAF332	J	3.3k	1/2W	Chip	AC
R1723	95KUEFD333CF	J	33k	1W	Metal Film	AB
R1724	95KUEXCAS103	J	10k	1/4W	Chip	AB

Ref. No.	Part No.	★	Description	Code

CDENC0273CE01

POWER/BALLAST UNIT (Continued)

R1725	95KUEXDAK820	J	82	1/4W	Chip	AB
R1726	95KUEXCAS102	J	1k	1/4W	Chip	AB
R1727	95KUEXDAK562	J	5.6k	1/4W	Chip	AB
R1728	95KUEXEAF473	J	47k	1/2W	Chip	AC
R1729	95KUEXEAF473	J	47k	1/2W	Chip	AC
R1730	95KUEXEAF223	J	22k	1/2W	Chip	AC
R1731	95KUEXEAF183	J	18k	1/2W	Chip	AC
R1732	95KUEXEAF273	J	27k	1/2W	Chip	AC
R1733	95KUEXEAF183	J	18k	1/2W	Chip	AC
R1734	95KUEBB2R2AY	J	2.2	1W	Fuse Resistor	AD

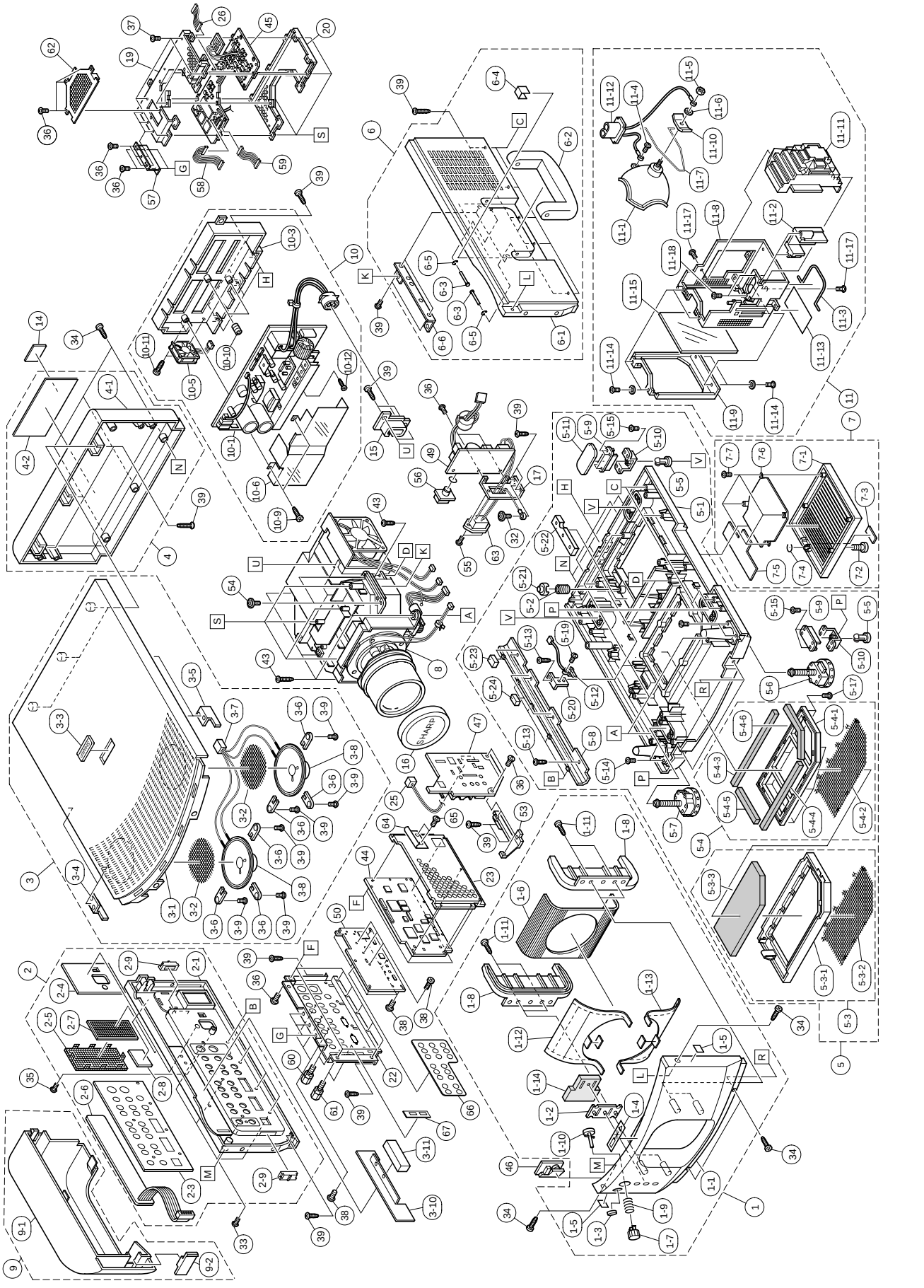
MISCELLANEOUS PARTS

⚠ F702	95KPJCTR5001	J	Fuse, 5A 125V		AF
⚠ F703	95KPJCTR5001	J	Fuse, 5A 125V		AF
⚠ F704	95KPJCTR5001	J	Fuse, 5A 125V		AF
⚠ F705	95KPJCZZ0092	J	Fuse, 2A 250V		AF
F1701	95KPJT0160ZZ	J	Fuse, P130A		AF
FB701	95KUKZ0828ZZ	J	Ferrite Bead		AC
FB1701	95KUKZ0334ZZ	J	Ferrite Bead		AB
FB1702	95KUKZ0828ZZ	J	Ferrite Bead		AC
FB1703	95KUKY0014AZ	J	Ferrite Bead (Chip)		AD
FB1704	95KUKZ0334ZZ	J	Ferrite Bead		AB
FB1705	95KUKZ0828ZZ	J	Ferrite Bead		AC
FB1706	95KUKY0014AZ	J	Ferrite Bead (Chip)		AD
FB1709	95KBFZ89250Z	J	Ferrite Bead		AB
FB1710	95KBFZ89250Z	J	Ferrite Bead		AB
FB1711	95KBFZ89250Z	J	Ferrite Bead		AB
FB1712	95KBFZ89250Z	J	Ferrite Bead		AB
FB1713	95KBFZ89250Z	J	Ferrite Bead		AB
FB1714	95KBFZ89250Z	J	Ferrite Bead		AB
FB1716	95KBFZ89250Z	J	Ferrite Bead		AB
⚠ RY701	95KPHZ0191ZZ	J	Relay DG5D1-0(M)-2 TV-8		AN
⚠ RY702	95KPHZ0191ZZ	J	Relay DG5D1-0(M)-2 TV-8		AN
MT1	95KLRZ6486ZR	J	Heat Sink		AG
MT2	95KLRZ6460ZP	J	Heat Sink		AG
MT3	95KLRZ6343ZP	J	Heat Sink		AF
MT4	95KLRZ6554ZR	J	Heat Sink		AS
MT5	LHLDZ2035CEKZ	J	Holder		AR
MT6	LANGQ1322CEFW	J	Angle		AH
CN101A	95KPKZ1184ZZ	J	Connector, 10-Pin		AD
CN101B	95KPKZ1183ZZ	J	Connector, 10-Pin		AE
CN102A	95KPKZ0540ZZ	J	Connector, 4-Pin		AB
CN102B	95KPKZ0540ZZ	J	Connector, 4-Pin		AB
	95KPKZ0532ZZ	J	Connector, 12-Pin (EA)		AD
	95KPKZ0527ZZ	J	Connector, 7-Pin (EB)		AC
	95KPKZ0540ZZ	J	Connector, 4-Pin (FD)		AB
	95KPKZ1168ZZ	J	Base Pin, 2-Pin (PA)		AD

CABINET AND MECHANICAL PARTS

Ref. No.	Part No.	★	Description	Code
1	DBDYF1075CE04	J	Front Cabinet Ass'y	
1-1	*Not Available*	–	Front Cabinet	—
1-2	GCOVA1691CEKA	J	LED Cover	AD
1-3	GCOVA1692CEKA	J	R/C Cover	AD
1-4	HiNDP4637CESE	J	Indicator	AD
1-5	TLABS0049GEZZ	J	Label, x2	AB
1-6	GCOVH1298CEKA	J	Cover	AL
1-7	JBTN-1958CEKC	J	Button, Power	AC
1-8	LHLDZ2034CEZZ	J	Holder, x2	AH
1-9	MSPRC0146CEFW	J	Spring, Power Button	AC
1-10	PGiDM0017CE00	J	Guide, Button	AB
1-11	XEBSD40P12000	J	Screw, x4	AA
1-12	PCOVM9019CEZZ	J	Lens Shift Cover	AG
1-13	PCOVM9024CEZZ	J	Lens Shift Cover	AG
1-14	PMLT-0308CEZZ	J	Molt	AE
2	DBDYS1101CE01	J	Left-Side Cabinet Ass'y	
2-1	*Not Available*	–	Left-Side Cabinet	—
2-3	HiNDP5203CESA	J	Terminal Indication Plate	AH
2-4	HiNDP5304CESA	J	AC Switch Indication Plate	
2-5	HPNC-0421CESC	J	Side Punching Plate	AG
2-6	QSW-Z0059CEZZ	J	Membrane Switch	BC
2-7	PFiLD0061CEZZ	J	Filter	AH
2-8	TLABF0036CEZZ	J	Fcc Label	
2-9	GCOVH1300CEKC	J	Cover , x2	AF
3	DBDYT1154CE01	J	Top Cabinet Ass'y (U.S.A.)	
3	DBDYT1154CE02	J	Top Cabinet Ass'y (CANADA)	
3-1	*Not Available*	–	Top Cabinet	—
3-2	GNETC0106CEZZ	J	Speaker Net, x2	AD
3-3	HBDGB3107CESA	J	SHARP Badge	AL
3-4	LHLDZ2037CEKZ	J	Holder (L), x2	AD
3-5	LHLDZ2038CEKZ	J	Holder (R), x2	AD
3-6	LANGS0116CEFW	J	Angle, x6	AD
3-7	QCNW-4704CEZZ	J	Connecting Wire	AK
3-8	VSP0080PBK48A	J	Speaker, x2	AN
3-9	XEPSD30P08000	J	Screw, x6	AA
3-10	PSLDM4573CEFW	J	Shield Plate	
3-11	PSLDM9189CEZZ	J	Shield Plate	
4	CBDYR1063CE09	J	Rear Cabinet Ass'y (U.S.A.)	
4	CBDYR1063CE11	J	Rear Cabinet Ass'y (CANADA)	
4-1	*Not Available*	–	Rear Cabinet	—
4-2	HiNDP5202CESA	J	Model Label (U.S.A.)	
4-2	HiNDP5309CESA	J	Model Label (CANADA)	
5	DBDYU1072CE06	J	Bottom Cabinet Ass'y	
5-1	*Not Available*	–	Bottom Cabinet	—
5-2	LX-NZ3102CEFW	J	Nut	AB
5-3	CCOVA1695CE03	J	Intake Cover Ass'y	AW
5-3-1	*Not Available*	–	Intake Cover	—
5-3-2	HPNC-0419CESC	J	Intake Cover Punching	AM
5-3-3	PFiLD0081CEZZ	J	Intake Air Filter	AH
5-4	CHLDT1015CE03	J	Filter Inner Frame Ass'y	AQ
5-4-1	LHLDT1015CEKC	J	Filter Inner Frame	AK
5-4-2	HPNC-0419CE00	J	Punching net	AM
5-4-3	PMLT-0309CEZZ	J	Molt	AC
5-4-4	PMLT-0310CEZZ	J	Molt	AC
5-4-5	PMLT-0311CEZZ	J	Molt	AB
5-4-6	PMLT-0312CEZZ	J	Molt	AC
5-5	GCOVH1299CEKC	J	Screw Cover, x4	AB
5-6	GLEGP1017CEKB	J	Adjuster-Right	AV
5-7	GLEGP3017CEKB	J	Adjuster-Left	AV
5-8	LANGF2133CEFW	J	Fixing Angle, x1	AK
5-9	LANGF9514CEFW	J	Fixing Angle, x4	AD
5-10	LANGK0640CEFF	J	Fixing Angle, x4	AH
5-11	PCOVW1044CEKZ	J	Cover, x2	AL
5-12	QCNW-4706CEZZ	J	Connecting Wire	AN
5-13	XEBSD30P10000	J	Screw, x6	AA
5-14	XEBSD30P14000	J	Screw, x6	AA
5-15	XEBSD40P12000	J	Screw, x8	AA
5-17	XEBSF30P10000	J	Screw, x6	AA
5-19	XBPSD26P06000	J	Screw, x2	AA
5-20	LANGQ1321CEFW	J	Fixing Angle, x2	AD
5-21	PCAPH1045CEKZ	J	Nut Cover	AD
5-22	PSLDP3041CEFW	J	Shield Plate	AD
5-23	PSLDM9187CEZZ	J	Shield Plate	
5-24	PSLDM9188CEZZ	J	Shield Plate, x2	
6	DBDYS1076CE04	J	Right-Side Cabinet Ass'y	
6-1	*Not Available*	–	Right-Side Cabinet	—
6-2	JHNDA1028CESE	J	Carrying Handle	AP
6-3	NSFTH0014CEFW	J	Handle Shaft, x2	AD
6-4	PSPAT0013CEZZ	J	Tape, x2	AC
6-5	XRESJ30-06000	J	E-ring, x2	AA
6-6	LANGK0641CEFW	J	Angle	AG
7	CCOVA1694CE03	J	Lamp Cage Cover Ass'y	AV
7-1	*Not Available*	–	Lamp Cage Cover	—
7-2	LX-BZ3274CESH	J	Screw	AE
7-3	TLABS0049GEZZ	J	Label	AB
7-4	XRESJ30-06000	J	E-ring	AA
7-5	PSLDP3042CEFW	J	Shield	AE
7-6	PCOVM1015CEKZ	J	Cover	AM
7-7	XEBSD30P06000	J	Screw, x4	AA
8	*Refer to Optics Mechanism Parts*			
9	DCOVA1690CE03	J	Terminal Cover Ass'y	AX
9-1	*Not Available*	–	Terminal Cover	—
9-2	LHLDZ2047CEKC	J	Holder	
10	CDENC0273CE01	J	Power/Ballast Unit Ass'y	

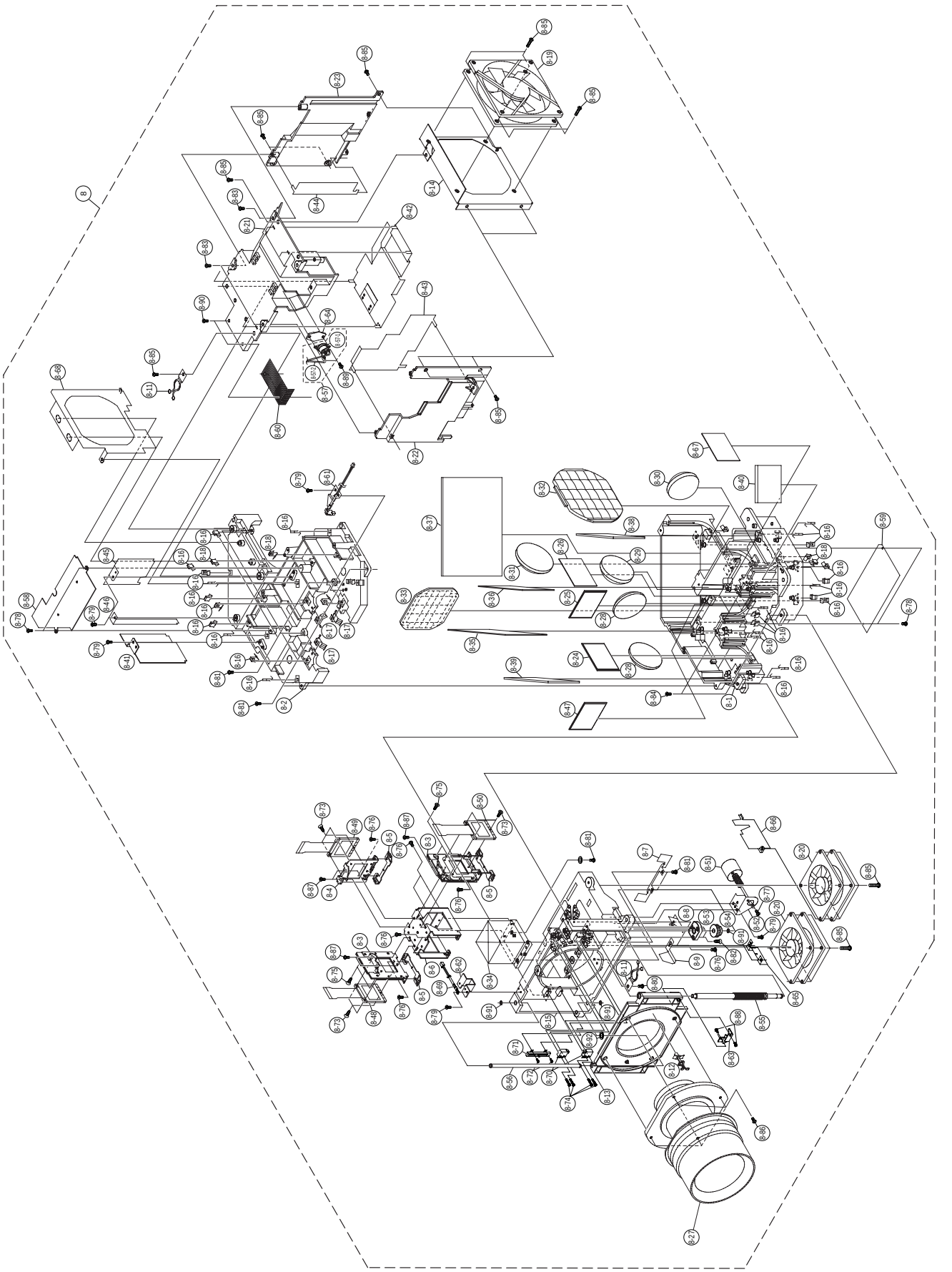
CABINET AND MECHANICAL PARTS



CABINET AND MECHANICAL PARTS (Continued)

Ref. No.	Part No.	★	Description	Code
10-1	*Not Available*	–	Power/Ballast Unit	—
10-3	LHLDZ2035CEKZ	J	Holder	AR
10-5	95KECB7881ZZ	J	Cooling Fan	
10-6	95KGZZ5403ZZ	J	Shield	
10-9	XBSSD30P08000	J	Screw, x2	AA
10-10	XEBSF30P08000	J	Screw, x2	AA
10-11	XEPSD40P35000	J	Screw, x2	AA
10-12	XJBSD30P05000	J	Screw, x1	AA
⚠ 11	BQC-XGE1200U1	J	Metal-Halide Lamp Unit (Lamp/Cage Module)	CG
⚠ 11-1	CLMPF0046DE01	J	Lamp/Mirror Ass'y	CC
11-2	LHLDZ2042CEKZ	J	Holder	AL
11-3	LHLDZ3053CEFW	J	Handle	AE
11-4	LX-BZ3270CEFN	J	Screw	AA
11-5	LX-NZ3108CEFN	J	Nut	AA
11-6	LX-WZ3102CEFN	J	Washer	AA
11-7	MSPRK0053CEFW	J	Spring	AE
11-8	PCASZ3015CEFW	J	Lamp Case-Front	AZ
11-9	LANGG1147CEFW	J	Angle	AC
11-10	PRDAR1499CEFW	J	Heat Sink	AC
11-11	PSLDP1006CE00	J	Shield	AS
11-12	QPLGN0309FJZZ	J	Plug	AP
11-13	TLABZ0647CEZZ	J	Label	AD
11-14	LX-BZ3365CEFD	J	Screw, x4	AB
11-15	PFiLW0175CEZZ	J	Glass	BH
11-17	XEBSD40P10000	J	Screw, x2	AA
11-18	XEBSD30P08000	J	Screw, x2	AA
14	HiNDP5204CEZZ	J	Indicator (U.S.A.)	
14	HiNDP5310CEZZ	J	Indicator (CANADA)	
15	LHLDZ2088CEKZ	J	Holder	AF
16	PCAPH1049CESB	J	Lens Cap	AR
17	LANGQ1322CEFW	J	Fixing Angle	AH
19	PSLDM4411CEFW	J	Shield for K9756DE	AR
20	PSLDM4412CEFW	J	Shield for K9756DE	AQ
22	PSLDM4518CEFW	J	Shield for K9757DE	AP
23	PSLDM4414CEFW	J	Shield for K9757DE	AP
25	QCNW-4705CEZZ	J	Connecting Wire	AF
26	QCNW-4708CEZZ	J	Connecting Wire	AN
32	XHPSD30P06WS0	J	Screw, x1	AA
33	LX-BZ3377CESA	J	Screw, x7	AC
34	LX-HZ3098CESA	J	Screw, x9	AC
35	LX-HZ3099CESA	J	Screw, x1	AC
36	XBBSD30P06000	J	Screw, x26	AA
37	XBBSD30P08000	J	Screw, x3	AA
38	XBPSD20P04000	J	Screw, x18	AA
39	XEBSD40P12000	J	Screw, x28	AA
43	XTBSD40P30000	J	Screw, x5	AA
44	*Not Available*	–	Signal Unit	—
45	*Not Available*	–	Output Unit	—
46	*Not Available*	–	Infrared R/C Receiver Unit	—
47	*Not Available*	–	LED Unit	—
49	*Not Available*	–	AC-SW Unit	—
50	*Not Available*	–	Input Unit	—
53	LANGQ1323CEFW	J	Angle	AH
54	XBPSD40P12JS0	J	Screw, x2	AA
55	XBSSD30P06000	J	Screw, x2	AA
56	JKNBP1065CESB	J	Power Button	AC
57	LANGH0137CEFW	J	Angle	AG
58	QCNW-4711CEZZ	J	Connecting Wire	AK
59	QCNW-4712CEZZ	J	Connecting Wire	AK
60	NSFTZ0134CEFW	J	Shaft, x2	AD
61	NSFTZ0135CEFW	J	Shaft, x2	AD
62	PSLDM4439CEFW	J	Shield	AX
63	*Not Available*	–	AC Inlet	—
64	PSLDM4565CEFW	J	Shield Plate	
65	XBBSD30P04000	J	Screw, x2	AA
66	CSLDM9201CE01	J	Shield	
67	PSPAZ0310CEZZ	J	Holder	

OPTICS MECHANISM PARTS



OPTICS MECHANISM PARTS

Ref. No.	Part No.	★	Description	Code
8	CCHSK0051CEK3	J	Optics Mecha Ass'y	FU
8-1	LCHSK0053CEKZ	J	Optics Mecha Base	BF
8-2	LCHSK0054CEKZ	J	Optics Mecha Cover	BF
8-3	LANGG1182CEFW	J	R/B Adjusting Plate, x2	
8-4	LANGG1183CEFW	J	G Adjusting Plate	
8-5	LANGG1126CEFW	J	Slide Palte, x3	AG
8-6	LANGG1181CEFW	J	Guide Plate	
8-7	LANGG1148CEFW	J	Flap-W	AH
8-8	LANGG1168CEFW	J	Flap-B	
8-9	LANGG1150CEFW	J	Flap-R	AH
8-11	LHLDW1046CEZZ	J	Wire Holder, x2	AA
8-12	LHLDW1087CEZZ	J	Wire Holder	AB
8-13	LHLDZ2045CEKZ	J	Holder, for Projection Lens	BA
8-14	LHLDZ3052CEFW	J	Angle for Fan	AX
8-15	LHLDZ3063CEFW	J	Holder, for Prizm	
8-16	MSPRP1181CEFW	J	Mirror Fitting Spring, x29	AD
8-17	MSPRP1204CEFW	J	Polarizing Plate Fitting Spring, x3	AE
8-18	MSPRP1183CEFW	J	Lens Fitting Spring, x4	AD
8-19	NFANR0078CEZZ	J	Cooling Fan (Exhaust), x1	BC
8-20	NFANR0091CEZZ	J	Cooling Fan (Intake), x2	
8-21	PDUC-0062CEKZ	J	Duct Holder (Upper)	BB
8-22	PDUC-0063CEKZ	J	Duct Holder (Left)	AZ
8-23	PDUC-0064CEKZ	J	Duct Holder (Right)	AZ
8-24	PFiLW0158CEZZ	J	Polarizer Input Filter-R	BB
8-25	PFiLW0193CEZZ	J	Polarizer Input Filter-G	BB
8-26	PFiLW0192CEZZ	J	Polarizer Input Filter-B	BD
8-27	CLNS-0112CE02	J	Projection Lens	CP
8-28	PLNS-0113CEZZ	J	Condenser Lens-R/G, x2	BC
8-29	PLNS-0115CEZZ	J	Condenser Lens-B	BA
8-30	PLNS-0116CEZZ	J	Relay Lens-2	AY
8-31	PLNS-0117CEZZ	J	Relay Lens-1	AZ
8-32	PLNS-0118CEZZ	J	Flyeye Lens (Incoming-Light)	BV
8-33	PLNS-0119CEZZ	J	Flyeye Lens (Outgoing-Light) with IR Cut Filter	BS
8-34	PMiR-0165CEZZ	J	Cross Prizm (with Base)	CK
8-35	PMiR-0166CEZZ	J	Mirror-2 (B/G Reflector)	BE
8-36	PMiR-0236CEZZ	J	Mirror-3 (G Reflector)	
8-37	PMiR-0168CEZZ	J	Mirror-1 (W AL Reflector)	AS
8-38	PMiR-0169CEZZ	J	Mirror-4 (B AL Reflector)	AM
8-39	PMiR-0181CEZZ	J	Mirror-5 (R Reflector)	BA
8-40	PMiR-0177CEZZ	J	Mirror-6 (B Reflector)	BA
8-41	PSLDP3024CEFW	J	Light Shielding Plate-A	AP
8-42	PSLDP3031CEFW	J	Heat Shielding Plate-A	AX
8-43	PSLDP3032CEFW	J	Heat Shielding Plate-B	AT
8-44	PSLDP3033CEFW	J	Heat Shielding Plate-C	AN
8-45	PSLDP3035CEFW	J	Light Shielding Plate-B	AL
8-46	PSLDP3036CEFW	J	Light Shielding Plate-C	AK
8-47	PMiR-0182CEZZ	J	Triming Filter-G	AY
8-48	RLCDP0042CEZZ	J	LCD Module Unit, Red	CY
8-49	RLCDP0043CEZZ	J	LCD Module Unit, Green	CY
8-50	RLCDP0044CEZZ	J	LCD Module Unit, Blue	CY
8-51	RMOTM1062GEZZ	J	Motor	AP
8-52	LANGK0642CEKZ	J	Angle, for Motor	AK
8-53	NBRGP0004CEZZ	J	Shift Screw Holder	AF
8-54	9EQRK0002KKZZ	J	Gear	AE
8-55	NSFTT0056CEFW	J	Shift Screw	AW
8-56	NSFTT0057CEFW	J	Guide B	AV
⚠ 8-57	CBiM-0001CE26	J	Bimetal Ass'y	AS
⚠ 8-57-1	RBiM-0001CEZZ	J	Bimetal	AN
8-57-2	QCNW-4714CEZZ	J	Connecting Wire	AH
8-58	PCOVN3002CEFW	J	Cover, Top	AL
8-59	PCOVN9004CE00	J	Cover, Bottom	AL
8-60	HPNC-0425CE00	J	Punching	AL
8-61	RH-HZ0048CEZZ	J	Thermistor	AN
8-62	LANGT3259CEFW	J	Angle, for Output Unit	AN
8-63	LANGF9516CEFW	J	Stopper	AH
8-64	PSPAZ0192CEKZ	J	Spacer, for Bimetal	AF
8-65	LANGG1167CEFW	J	Flap-R2	
8-66	LANGG1169CEFW	J	Plate, for Fan	
8-67	PFiLW0169CEZZ	J	Pre-Polarizer Input Filter-B	BF
8-68	PSLDP3040CEFW	J	Light Shielding Plate-D	AU
8-69	RH-HZ0051CEZZ	J	Thermistor	AN
8-70	9EQCK0002KKZZ	J	Stroke Switch, x2	AP
8-71	9EQCK0001KKZZ	J	Linear Position Sensor	AS
8-72	XSPSF17P04000	J	Screw M1.7-4, x2	AA
8-73	XSSSF20P05000	J	Screw M2-5, x9	AA
8-74	XBPSD20P10000	J	Screw M2-10, x4	AA
8-75	LX-BZ3372CEFF	J	Screw M2.6-6, x4	AC
8-76	LX-BZ3370CEFD	J	Screw M2.6-6, x18	AB
8-77	XBPSD30P04J00	J	Screw M3-4, x2	AA
8-78	XEPSD30P06000	J	Screw M3-6, x6	AA
8-79	LX-BZ3266CEFD	J	Screw M3-6, x7	AA
8-80	LX-BZ3367CEFD	J	Screw M3-6	AB
8-81	LX-BZ3049GEFD	J	Screw M3-10, x9	AA
8-82	XBSSD30P10000	J	Screw M3-10, x3	AA
8-83	XEPSD40P10000	J	Screw M4-10, x4	AA
8-84	XBBSD40P12000	J	Screw M4-12, x4	AB
8-85	XBPSD40P12JS0	J	Screw M4-12, x16	AA
8-86	XEPSF40P12000	J	Screw M4-12, x4	AA
8-87	LX-BZ3382CEFD	J	Screw M2.6-5, x6	AB
8-88	XEPSD20P04000	J	Screw M2-4, x2	AA
8-89	XEPSD30P08000	J	Screw M3-8, x2	AA
8-90	XEPSD30P10000	J	Screw M3-10, x2	AA
8-91	9EQHK0001KKZZ	J	Washer 4.1W9-0.5CW, x3	AC
8-92	XNHUM50-08100	J	Flat Washer	

Ref. No.	Part No.	★	Description	Code

SUPPLIED ACCESSORIES

ACCESSORIES

⚠	QACCU5013CEZZ	J	AC Cord	AX
	QCNW-5050CEZZ	J	Computer(VGA) Cable	AX
	QCNW-3740CEZZ	J	AV Cable	BB
	HiNDP4946CESC	J	INDICATOR (U.S.A.)	AE
	PFiLD0082CEZZ	J	Filter	AK
	GCOVA1690CEKC	J	Terminal Cover	
	QPLGJ1512CEZZ	J	Mac/VGA Adaptor	AY
	RRMCG1461CESA	J	Remote Control Unit	BE
	TiNS-6513CEZZ	J	Operation Manual	AW

ACCESSORIES (NOT REPLACEMENT ITEM)

TGAN-1468CEZZ	–	Register Card (U.S.A.)	—
TCAUH1133CEZZ	–	Caution Card	—
TGAN-1467CEZZ	–	Guarantee Card (U.S.A.)	—
TGAN-1355CEZZ	–	Guarantee Card (CANADA)	—
—	–	Four AA Batteries	—

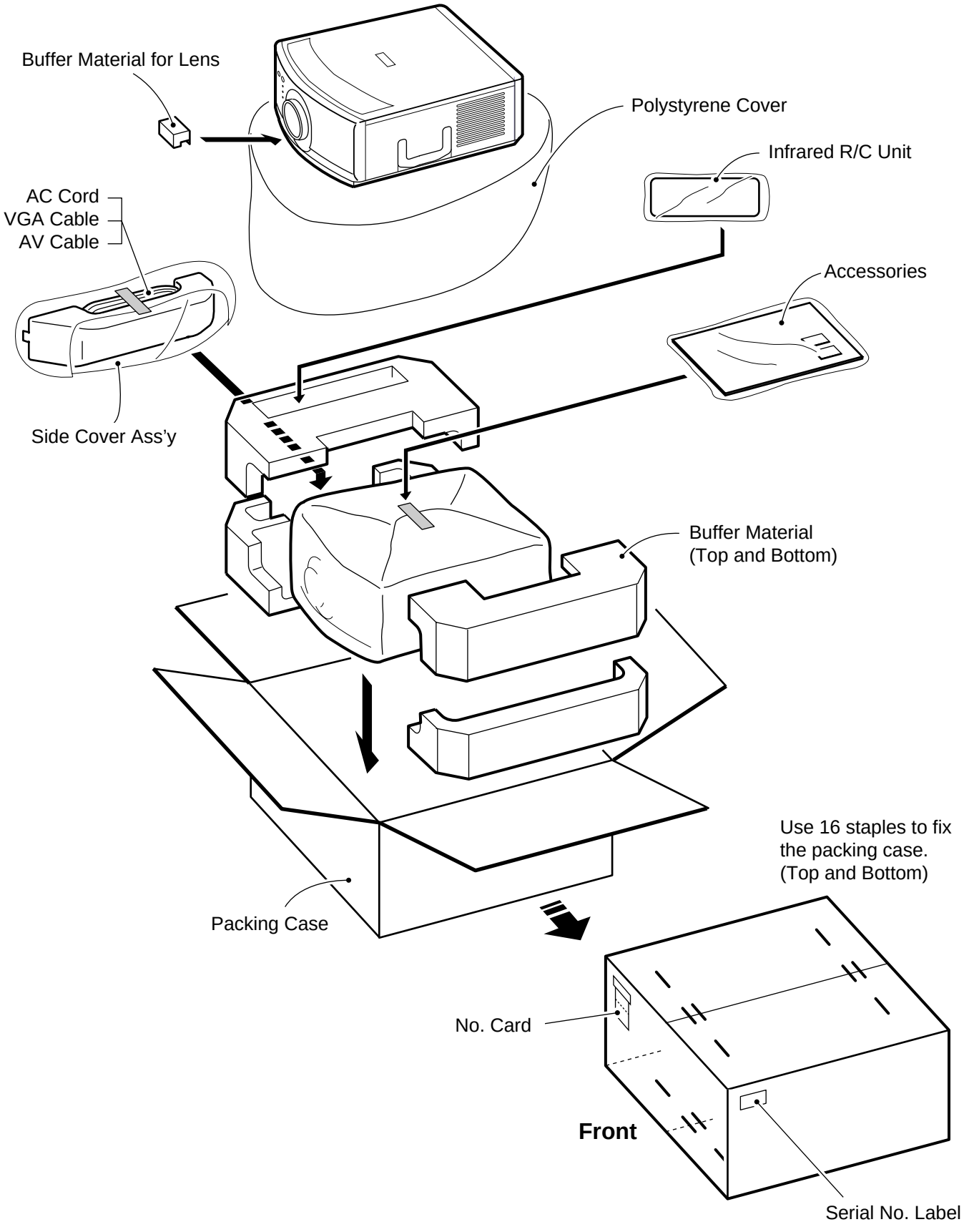
PACKING PARTS
(NOT REPLACEMENT ITEM)

SPAKC5268CEZZ	–	Packing Case	—
SPAKP0604CEZZ	–	Polystyrene Cover	—
SPAKX2785CEZZ	–	Buffer Material (Top and Bottom)	—
SSAKA0170CEZZ	–	Polyethylene Bag for Operation Manual and Cards	—
TLABK0001TAZZ	–	Number Card	—
TLABN0157CEZZ	–	Serial Number Label	—
SPAKX2842CEZZ	–	Buffer Material for Lens	—

SERVICE JIGS
(Use for servicing)

9DASPN-XGNV1U	J	Spanna, 3mm (Off-set Cam Adjustment)	BG
9EQDRiVER-NV1A	J	Off-set Driver (Fucus Adjustment)	CA
9EQDRiVER-NV1B	J	Screwdiver, (–) (Focus Adjustment)	BL
9EQLNC-XGNV1U or 9EQLNC-XGNV4U	J	Hexagon Wrench, 2mm (Convergence Adjustment)	BA AU
QCNW-4768CEZZ	J	Extension Cable 28-pin Signal (TN)—Input (TN), Signal (CA)—Input (CA)	BT
QCNW-4850CEZZ	J	Extension Cable 70-pin Signal —Output	CC

PACKING OF THE SET



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TQ0581-S
Dec. 1998 Printed in Japan
SY. KG

SHARP CORPORATION
AV Systems Group
Quality & Reliability Control Center
Yaita, Tochigi 329-2193, Japan

SHARP TECHNICAL MANUAL

T69J5XV-ZW99U

LCD PROJECTOR

MODEL **XV-ZW99U**

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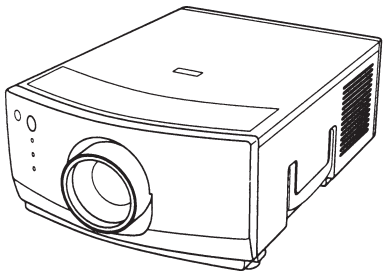
This Technical Manual is now prepared to help servicing the LCD Projector equipped models, and its descriptions are limited only to “Description of New Circuit” etc.
For more understanding of each model, refer to its respective Service Manual already issued.
(This Technical Manual is based on Model XV-ZW99U.)



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1. BLOCK DIAGRAM

A block diagram of video signal flow in the XV-ZW99U is shown in ***Figure1-1***. On this model, two different video input signals are processed at once by the MMC (Moving Multi-Composer) and its peripheral circuits in order to achieve the two-picture display function.

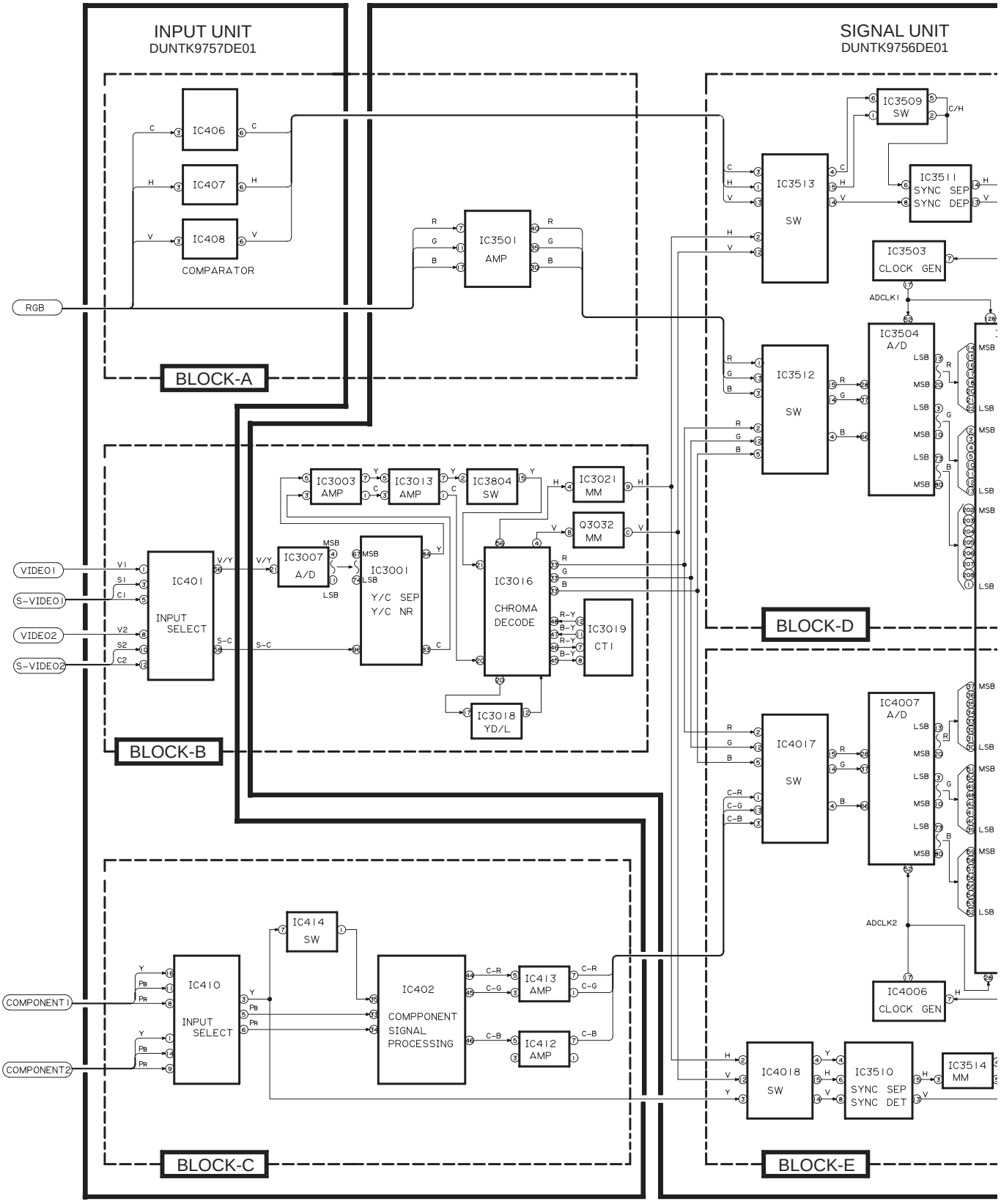
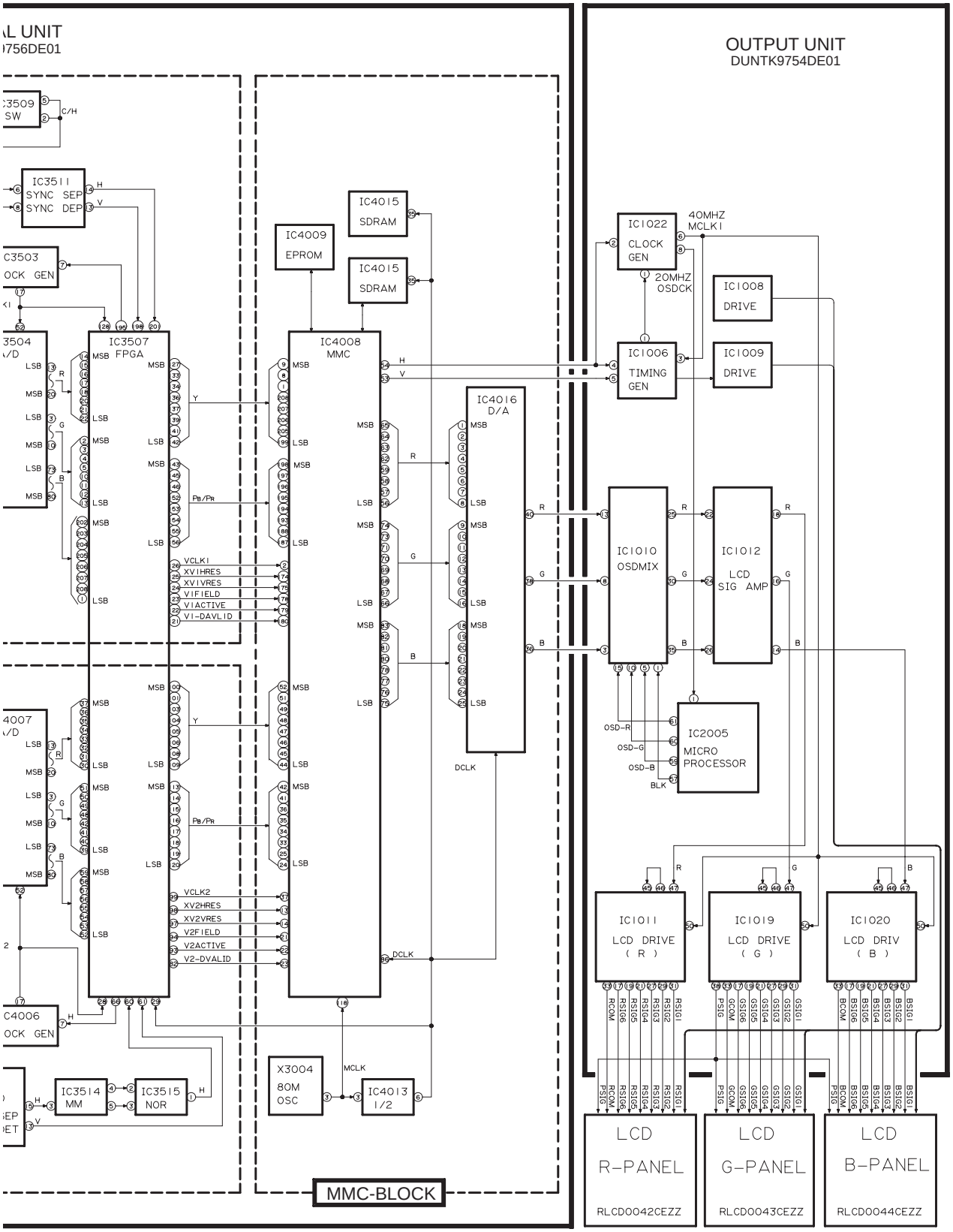


Figure 1-1.



10	11	12	13	14	15	16	17	18	19

2. FRONT SIGNAL PROCESSING

Each of the input video signals is decoded and transformed into R/G/B signals. "BLOCK-A" is used to handle the R/G/B input signals, whereas "BLOCK-B" and "BLOCK-C" process the input video signal and the component input signal, respectively.

3. SIGNAL PROCESSING FOR TWO-PICTURE DISPLAY

In order to display two pictures at once on the screen, two independently working processing circuits, "BLOCK-D" and "BLOCK-E", are needed.
These two blocks are basically of the same design. ***Table 3-1.*** shows the video signal input lines that are selected for the different display modes by the blocks.
In these blocks, the outputs from the sync signal switches (IC3513 and IC4018) are processed to generate the horizontal and vertical sync signals.
Using the sync signals, the clock generators (IC3503 and IC3510) generate the clock signals and the FPGA (IC3507) provides for various timing signals.
The outputs from the video signal switches (IC3512 and IC4017), on the other hand, are converted to R/G/B digital signals by the A/D converters (IC3504 and IC4007)and to YUV digital signals by the FPGA (IC3507).

	One-picture display	Two-picture display		
BLOCK-D	Video or R/G/B	Video	RGB	RGB
BLOCK-E	Component	Component	Component	Video

Table 3-1.

4. FPGA (Field Programmable Gate Array)

This array does the following jobs using the horizontal and vertical sync signals of various video signals: generating a timing signal that is needed to process the signal at the MMC; detecting the sync signal frequency to identify the input signal mode; and converting the R/G/B digital signals (which are received in 8 bits each: 24 bits in total) to YUV signals.
The UV signal is processed in dot sequential system, which switches the U signal component and the V signal component alternately in each sampling. The
YUV signal comes out in 16 bits.
The above circuitry is incorporated in two lines so as to provide for the two-picture display.
The timing signals coming out of the FPGA are roughly discussed in ***Table 4-1.***.
An outline of serial data transfer between the FPGA and the microprocessor is also explained in page 5.

Signal name	Description
CLK	Clock (10-50 MHz) for input video signal
HRES	Reset pulse for horizontal period
VRES	Reset pulse for vertical period
FIELD	Frame period pulse
ACTIVE	Pulse for effective video signal range
DVALID	Pulse for effective video data range in SVGA mode

Table 4-1.

4-1. FPGA interface specifications

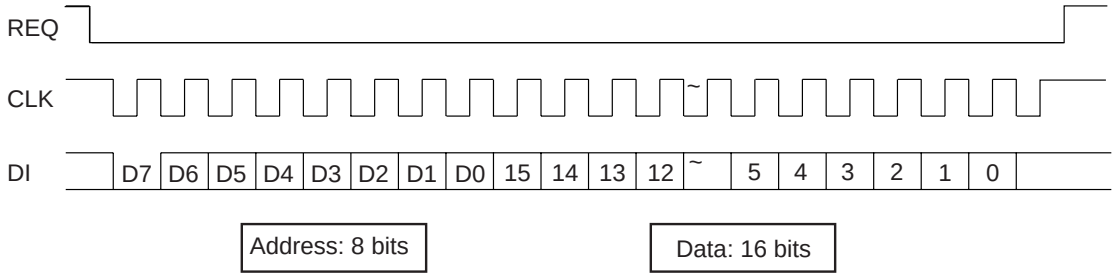


Figure 4-1. MC→FPGA (WRITE)

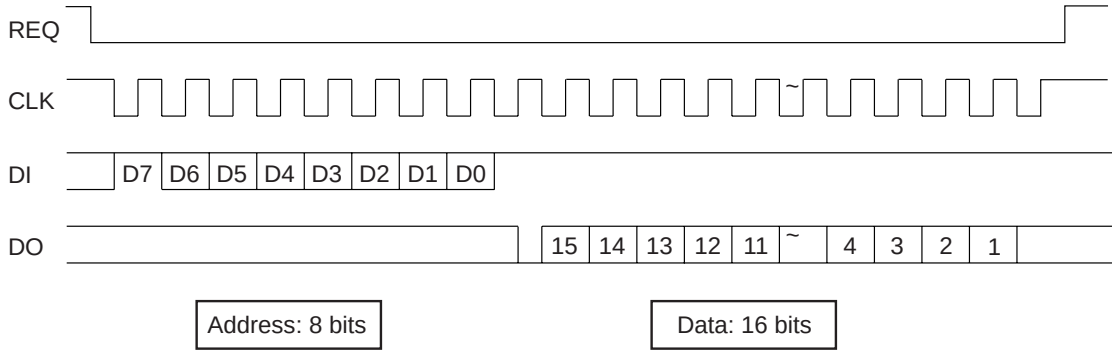


Figure 4-2. FPGA→MC (READ)

4-2. READ/WRITE is switched starting from the first 1-bit address

Item	Address	Contents
H active start 1	0 0 0 0 0 1 1 1	0 0 0 0 0 0 0 0 ✳✳✳✳✳✳✳✳
H active end 1	0 0 0 0 1 0 0 0	0 0 0 0 0 ✳✳✳✳✳✳✳✳✳✳✳
H active start 2	0 0 0 0 1 0 0 1	0 0 0 0 0 0 0 0 ✳✳✳✳✳✳✳✳
H active end 2	0 0 0 0 1 0 1 0	0 0 0 0 0 ✳✳✳✳✳✳✳✳✳✳✳
V active start 1	0 0 0 0 1 0 1 1	0 0 0 0 0 0 0 0 0 0 ✳✳✳✳✳✳
V active end 1	0 0 0 0 1 1 0 0	0 0 0 0 0 0 ✳✳✳✳✳✳✳✳✳✳
V active start 2	0 0 0 0 1 1 0 1	0 0 0 0 0 0 0 0 0 0 ✳✳✳✳✳✳
V active end 2	0 0 0 0 1 1 1 0	0 0 0 0 0 0 ✳✳✳✳✳✳✳✳✳✳
H width 1	0 0 0 0 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 ✳✳✳✳✳✳
FTS2	0 0 0 1 0 0 0 0	0 0 0 0 0 ✳✳✳✳✳✳✳✳✳✳✳
V width 1	0 0 0 1 0 0 0 1	0 0 0 0 0 0 0 0 0 0 0 ✳✳✳✳✳✳
FTH2	0 0 0 1 0 0 1 0	0 0 0 0 0 ✳✳✳✳✳✳✳✳✳✳✳
H delay start 1	0 0 0 1 0 0 1 1	0 0 0 0 0 ✳✳✳✳✳✳✳✳✳✳✳
H delay start 2	0 0 0 1 0 1 0 0	0 0 0 0 0 ✳✳✳✳✳✳✳✳✳✳✳
V delay start 1	0 0 0 1 0 1 0 1	0 0 0 0 0 0 ✳✳✳✳✳✳✳✳✳✳
V delay start 2	0 0 0 1 0 1 1 0	0 0 0 0 0 0 ✳✳✳✳✳✳✳✳✳✳
SEL.	0 0 0 1 0 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 ✳✳✳
H width 2	0 0 0 1 1 0 0 0	0 0 0 0 0 0 0 0 0 0 0 ✳✳✳✳✳✳
V width 2	0 0 0 1 1 0 0 1	0 0 0 0 0 0 0 0 0 0 0 ✳✳✳✳✳✳
FTS1	0 0 0 1 1 0 1 0	0 0 0 0 0 ✳✳✳✳✳✳✳✳✳✳✳
FTH1	0 0 0 1 1 0 1 1	0 0 0 0 0 ✳✳✳✳✳✳✳✳✳✳✳

Table 4-2. WRITE

Item	Address	Contents
H counter 1	1 0 0 0 0 0 0 1	0 0 0 0 0 ✳✳✳✳✳✳✳✳✳✳✳
V counter 1	1 0 0 0 0 0 1 0	0 0 0 0 0 ✳✳✳✳✳✳✳✳✳✳✳
H counter 2	1 0 0 0 0 0 1 1	0 0 0 0 0 ✳✳✳✳✳✳✳✳✳✳✳
V counter 2	1 0 0 0 0 1 0 0	0 0 0 0 0 ✳✳✳✳✳✳✳✳✳✳✳
Over flg	1 0 0 0 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 ✳✳✳✳

Table 4-3. READ

5. MMC (Moving Multi-Composer) AND ITS PERIPHERAL CIRCUITS

5-1. MMC

The MMC is a digital image processing IC with programmable software for I/P conversion, multi-picture display, enlargement/reduction, gamma correction and other functions.
The software specifically designed for this model provides for the basic image processing functions such as I/P conversion and gamma correction as well as advanced functions such as full-scale display, reduced display, PictMove (picture moving), 2Pict (two-picture display) and Enlarge (enlargement).

5-2. Signal flow from IC3507 (FPGA) thru IC4008 (MMC) to IC4016 (D/A converter)

The block diagram in ***Figure 5-1.*** shows the signal flow. The behaviors of IC3507 (FPGA), IC4008 (MMC) and IC4016 (D/A converter) are discussed below.

(1) IC3507 (FPGA)

The IC3507 (FPGA) is used to convert the input signal to the one that can be accepted by the IC4008 (MMC). From the FPGA's channel 1 comes out the digital data of composite, S or R/G/B input in the YCrCb form. Given out its channel 2 is the digital data of composite, S or component input also in the YCrCb form. The FPGA also serves to generate not just the data but also the horizontal and vertical sync signals, field signal and data enable signal for each line.

(2) IC4008 (MMC)

The IC4008 (MMC) feeds the YCrCb-format digital data, horizontal and vertical sync signals, field signal and data enable signal to the inputs from the 2 lines.
The MMC processes the input video data and sends it out in the R/G/B form.
At the same time, the horizontal and vertical sync signals for the video output are generated and sent out by the MMC.

(3) IC4016 (D/A converter)

The 4016 (D/A converter) converts the signals from the IC4008 (MMC) into analog signals.

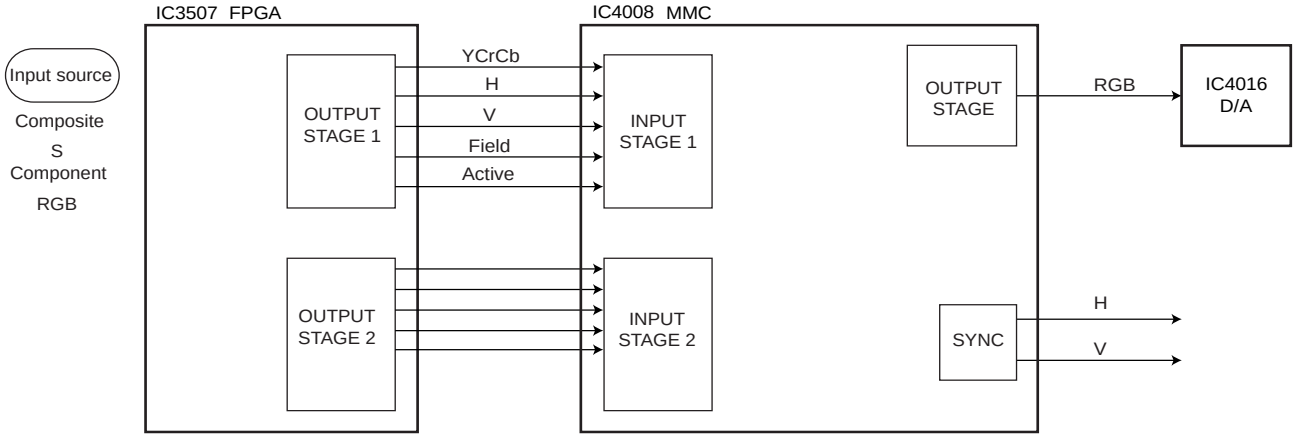


Figure 5-1. Signal flow block diagram

5-3. Input format from IC3507 (FPGA) to IC4008 (MMC)

- Signal line : 2 independent lines (asynchronous)
  Channel 1; Composite, S and R/G/B, Channel 2; Composite, S and component
- Data format : Y, R-Y, B-Y, 4:2:2 digital signal, interlace/progressive
- Input clock : Max. 50 MHz
- Fundamental numbers of dots x lines (partially different depending on modes)
  Interlace ; 640x480 (composite, S and component)
  Progressive ; 640x480 (composite, R/G/B (VGA))
  800x 600 (R/G/B (SVGA))
- Other input signals from IC3507 (FPGA) to IC4008 (MMC):
  Horizontal and vertical sync signals, field signal, data enable signal, etc.

5-4. Input clock frequency for IC4008 (MMC)

- Master clock : 80 MHz
- Reference clock for video output : 40 MHz

5-5. Output format for IC4008 (MMC)

- Data format : R/G/B in 8 bits each, progressive
- Output clock frequency : 40 MHz
- Number of output dots x lines : 800x600 (equivalent to SVGA)
- Vertical sync output signal : 59.94 Hz
- Other signal : Horizontal sync output signal

5-6. Behaviors on IC4008 (MMC) peripheral circuits

The block diagram in ***Figure 5-2.*** shows the IC4008 (MMC) and its peripheral circuits. The behaviors of the peripheral circuits are discussed below.

(1) IC4009 (ROM)

This IC contains the software specifically designed for this model. When the IC4008 (MMC) gets started, the contents on this ROM are transferred unprocessed to the IC4014 and IC4015 (SDRAM). The software is read all from the DRAM. The IC4009 (ROM) has a storage capacity of 4 Mbit (512 KB).

(2) IC4014 and IC4015 (SDRAM)

These IC's are used to store the IC4009 (ROM) software and the input data.
The master clock (80 MHz) is used as memory clock. The two IC's have a storage capacity of 4MB combined.

(3) IC2001 (microprocessor)

The microprocessor sends commands through the Tbus line to the IC4008 (MMC) in order to control the software and data in the MMC.

5-7. Basic behavior of IC4008 (MMC)

The behavior of the IC4008 (MMC) is discussed, referring to ***Figure 5-2.***.

- First, the IC4008 (MMC) receives the horizontal and vertical sync signals, field signal, and data enable signal, and picks up necessary data from the YCrCb data. It then sends the picked-up data to the IC4014 and IC4015 (SDRAM).
  Now the DPU (display processor) compares the program stored in the program memory with the data stored in the data memory. As a result, this processor controls the video processor and the SDRAM interface in order to process and generate the video data.
  In this way, the IC4008 (MMC) makes many functions possible. Here are the basic and advanced functions.

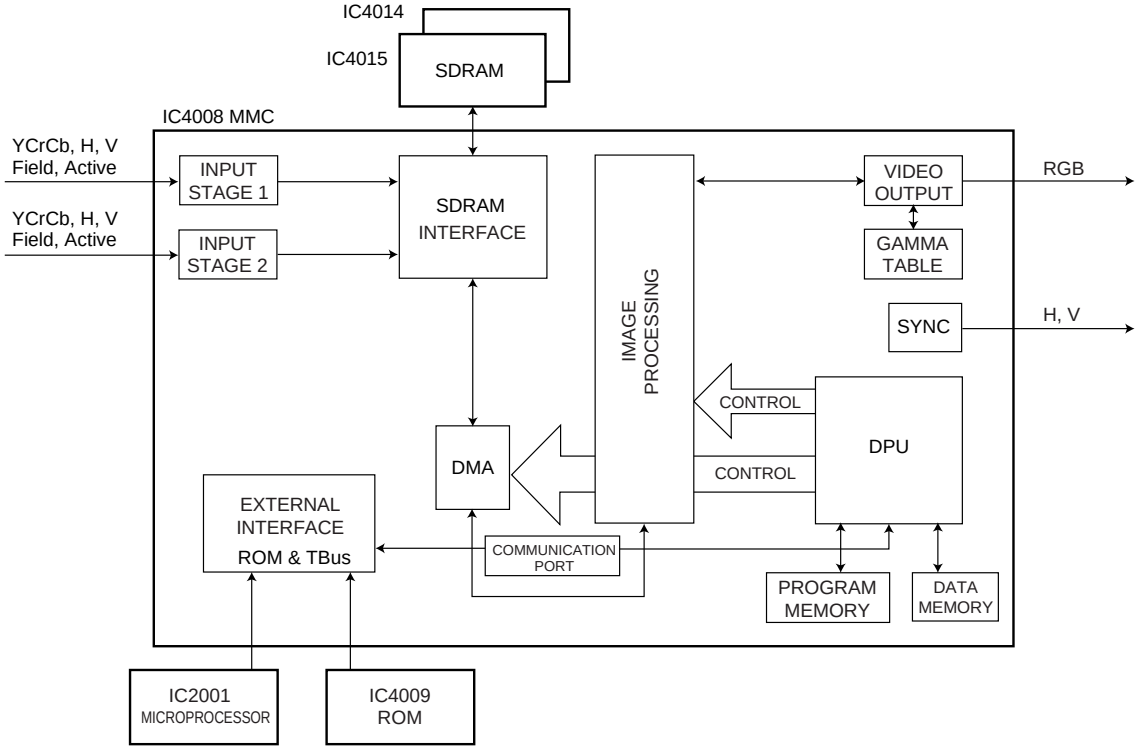


Figure 5-2. IC4008 (MMC) block diagram and its peripheral circuits

5-8. Functions of IC4008 (MMC)

5-8-1. Basic functions

(1) I/P conversion

When the input is an interlace signal, the IC4008 (MMC) converts it to progressive signal and sends it out. This is realized by reading one-line data twice from the SDRAM. See ***Figure 5-3.*** for an I/P conversion concept. Depending on the display mode, the one-line data is read not just twice, but using an interpolation technique. When the input is a progressive signal, no I/P conversion takes place.

(2) Gamma correction

The MMC's video output stage is equipped with a gamma table. Gamma correction is made just before the output goes out of the MMC. There are four different sets of gamma data (including OFF) available on this model.

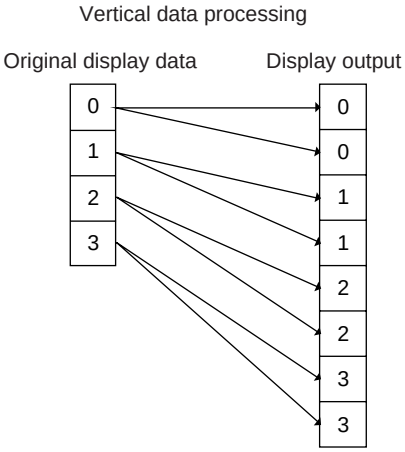


Figure 5-3. I/P conversion concept

5-8-2. Image processing modes

(1) Full-scale and reduced displays

For full-scale display, the horizontal stretching is controlled by the IC3507 (FPGA), while the vertical one by the program. (The image processing inside the IC4008 (MMC) is limited to the vertical direction. See ***Figure 5-4.***)

For reduced display, the horizontal shrinkage is controlled by the IC3507 (FPGA), while the vertical one by the zoom data. (The image processing inside the IC4008 (MMC) is limited to the vertical direction. See ***Figure 5-5.***)

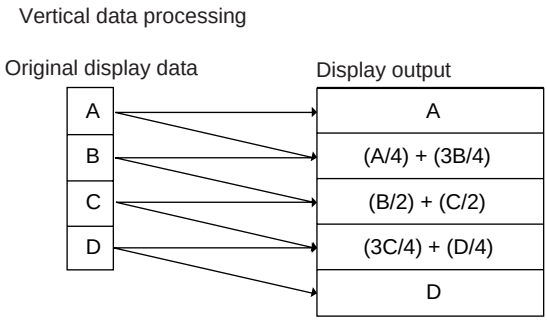


Figure 5-4. Full-scale display conversion concept

For full-scale display, the program for the above conversion runs in the MMC.

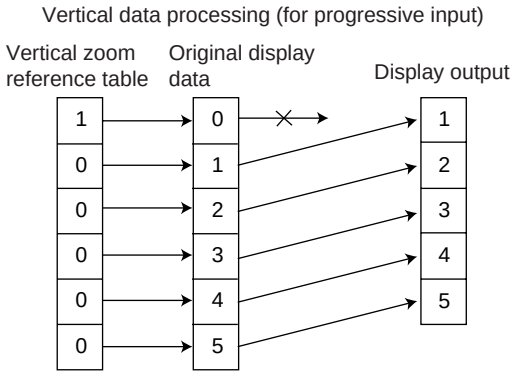


Figure 5-5. Reduced-display conversion concept

Skipping is made, as shown above, according to the vertical zoom reference table. Actually, interpolation is also effected.

(2) PictMove (picture moving)

The IC4008 (MMC) can specify a display range for the video data in the system of coordinates. The coordinates are designated with a command from the microprocessor. ***FGigure 5-6.*** shows a shift of display range.

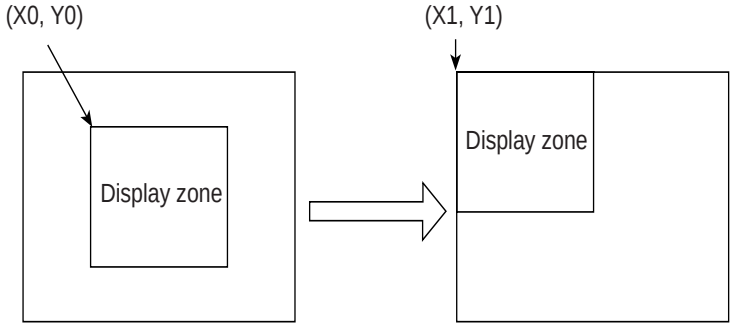


Figure 5-6. Picture moving concept

(3) 2Pict (two-picture display)

For two-picture display, both the horizontal and vertical directions of each picture are controlled for reduction by the zoom data. ***Figure 5-7.*** shows the behavioral concept.

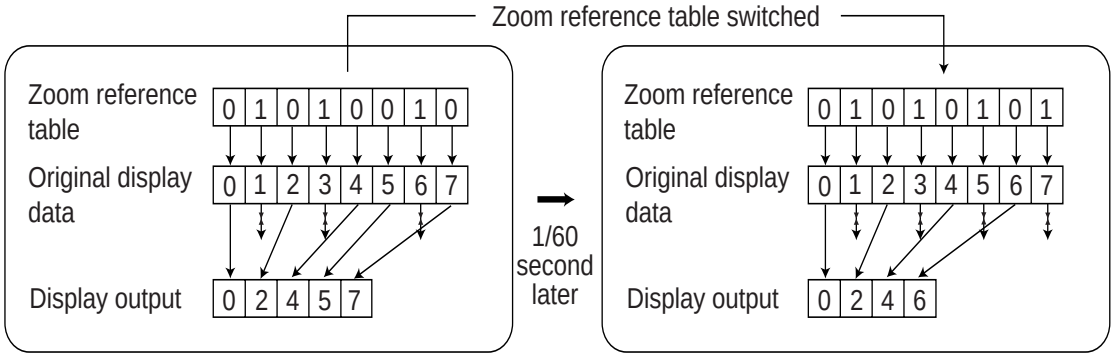

Zoom reference table switched
Zoom reference table
0 1 0 1 0 0 1 0
Original display data
0 1 2 3 4 5 6 7
Display output
0 2 4 5 7
1/60 second later
Zoom reference table
0 1 0 1 0 1 0 1
Original display data
0 1 2 3 4 5 6 7
Display output
0 2 4 6

Figure 5-7. Two-picture display zoom conversion concept

Two or more zoom reference tables are on standby. The tables are switched in 1/60 second for smooth zoom effects.

(4) Enlarge (enlargement)

A picture is enlarged in the horizontal direction by the zoom data and in the vertical direction by the program. ***Figure 5-8.*** shows the behavioral concept.

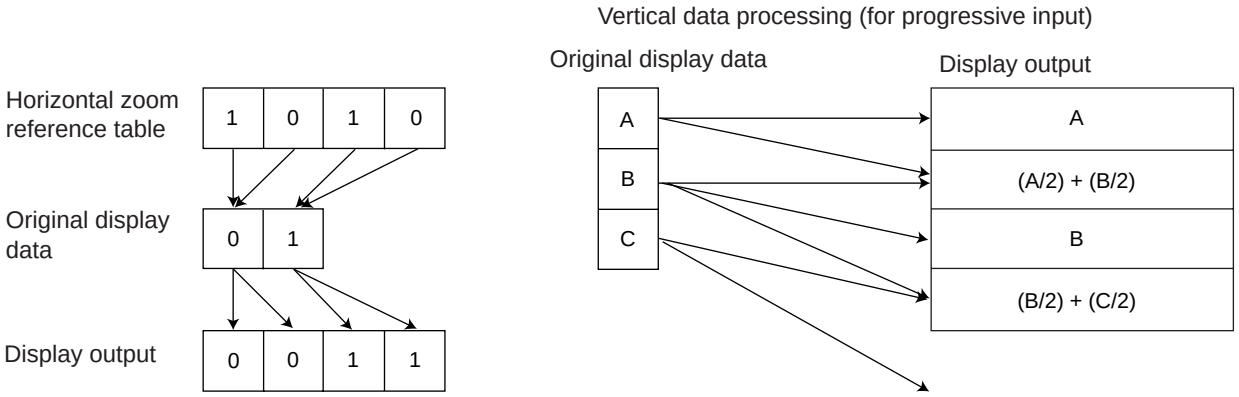


Figure 5-8. Enlargement concept

6. OUTPUT CIRCUIT

The R/G/B signals that are processed by the MMC and come out of the D/A converter are then switched for the video signal or the OSD signal. This switching is enabled by the BLK signal coming out of the IC2005 microprocessor. The resulting R/G/B signals are adjusted into 6 phases by the LCD drivers (IC1101, IC1019 and IC1020) and sent to the LCD panels.

The clock and timing signals that are necessary to drive the LCD panels are generated by the IC1006. To do this, the horizontal and vertical sync signals as well as the clock signal from the IC1022 are used.

6-1. Microprocessor (IC2001: RH-iX3221CEZZ)

An internal block diagram and a list of terminals in pages 10, 11 and 12.

See also the attached sheets for the DAC-IC and I/O expander terminals that are used to give out the control signals for the video and other circuits.

6-1-1. Block Diagram

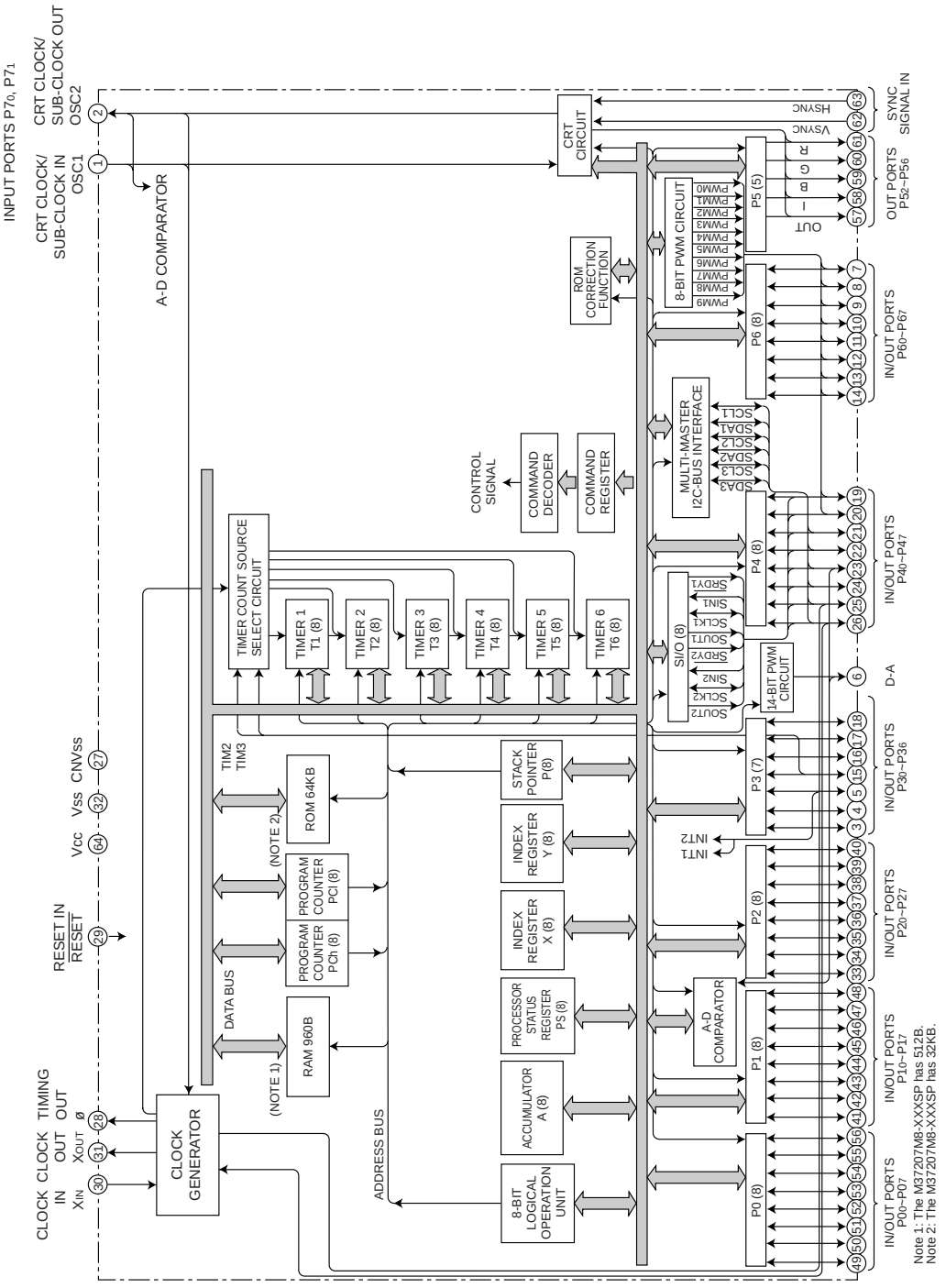


Figure 6-1.

6-1-2. Terminal Functions

No.	Composition	Application	Active	Reset	I/O	Remarks
1	OSC1/P70/AD4	OSD OSC				OSD OSC
2	OSC2/P71/AD5	OSD OSC				OSD OSC
3	P36/INT2/AD2	TEMP SENS 1	AD		INPUT	TEMP. REF. SENSOR INPUT 1
4	P35/AD1	TEMP SENS 2	AD		INPUT	TEMP. SENSOR INPUT
5	P34/INT1	R/C IN	H	–	INPUT	REMOTE CONTROL INPUT
6	D-A/AD3	TEMP SENS 3	AD		INPUT	TEMP. REF. SENSOR INPUT 2
7	P60/PWM0	SCL2	H	H	OUTPUT	IIC SCL2
8	P61/PWM1	SDA2	L	H		IIC SDA2
9	P62/PWM2	KI2	L	H	INPUT	KEY INPUT
10	P63/PWM3	AUTO DATA	L	H	INPUT	NOT USED
11	P64/PWM4	AUTO ENA	L	H	INPUT	NOT USED
12	P65/PWM5	CLK	L	H	OUTPUT	T-BUS
13	P66/PWM6	DA	H/L	H		T-BUS
14	P67/PWM7	PD		H	OUTPUT	T-BUS
15	P33/TIM3	KI1	L	H	INPUT	KEY INPUT
16	P32/TIM2/AD6	LEVEL	AD		INPUT	LENS SHIFT LEVEL
17	P31	KI3	L	H	INPUT	KEY INPUT
18	P30	KI4	L	H	INPUT	KEY INPUT
19	P47/Srdy1/PWM8	REQ	L	H	OUTPUT	FPGA
20	P46/Sin1/PWM9	D0	H	H	OUTPUT	FPGA
21	P45/Sclk1/SCL1	CLK	H	H	OUTPUT	FPGA
22	P44/Sout1/SDA1	D1	H	H	INPUT	FPGA
23	P43/Srdy2/SCL2/AD7	SCL3	H	L		I^2C SCL3 (SUB)
24	P42/Sin2/SDA2/AD8	SDA3	H	L		I^2C SDA3 (SUB)
25	P41/Sclk2/SCL3/Xcout	SCLK2	H	L	INPUT	SUB MC
26	P40/Sout2/SDA3/Xcin	SDAT2	H	L	INPUT	SUB MC
27	CNVss	GND				GND
28	ø					NC
29	RESET	Reset	L		INPUT	RESET INPUT
30	Xin	XIN	–		INPUT	SYSTEM CLOCK OSC.
31	Xout	XOUT	–		OUTPUT	SYSTEM CLOCK OSC.
32	Vss	GND	–	–	–	GND
33	P27	K01	L	H	CMOS	KEY OUTPUT
34	P26	DAC4 LD4	H	H	CMOS	DAC LD4
35	P25	K02	L	H	CMOS	KEY OUTPUT
36	P24	K03	L	H	CMOS	KEY OUTPUT
37	P23	K04	L	H	CMOS	KEY OUTPUT
38	P22	TG SIRIAL ENA	L	L	CMOS	TG SERIAL ENA
39	P21	EXIT IN	L	H	–	AUTO IN
40	P20	EXIT OUT	L	H	–	AUTO OUT
41	P17	TG S CLK	H	L	OUTPUT	SERIAL CLOCK
42	P16	TG S OUT	H	L	OUTPUT	SERIAL DATA OUTPUT
43	P15	DAC1 LD1	H	L	OUTPUT	DAC LD1
44	P14	DAC2 LD2	H	L	OUTPUT	DAC LD2

No.	Composition	Application	Active	Reset	I/O	Remarks
45	P13	DAC3 LD3	H	L	OUTPUT	DAC LD3
46	P12	SAK	H		INPUT	SUB MC
47	P11	SREQ	H		INPUT	SUB MC
48	P10	WDT CHECK	H		INPUT	WDT CHECK
49	P07		H		INPUT	NOT USED
50	P06	P-COM3	H	L	OUTPUT	FAN POWER ON/OFF
51	P05	PROTECT	H	L	OUTPUT	PROTECT
52	P04	P-CON1 LAMP	H	L	OUTPUT	LAMP POWER ON/OFF
53	P03	P-CON2 FAN	H	L	OUTPUT	MAIN POWER ON/OFF
54	P02	SW	H	L	OUTPUT	POWER ON FLG
55	P01	DOOR/FAN SW	H		INPUT	LEAF SW, FAN STOP
56	P00	LAMP FAILURE	H		INPUT	LAMP NO-LIGHT INPUT
57	OUT/P56	OSD BLK OUT	H	L	OUTPUT	OSD BLANKING OUTPUT
58	I/P56/TIM1/OVERFLOW	OPT1	H	L	INPUT	OPTION
59	B/P54	BLUE OUT	H	L	OUTPUT	OSD BLUE OUTPUT
60	G/P53	GREEN OUT	H	L	OUTPUT	OSD GREEN OUTPUT
61	R/P52	RED OUT	H	L	OUTPUT	OSD RED OUTPUT
62	Vsync	VD INPUT	H		INPUT	OSD V SYNC INPUT
63	Hsync	HD INPUT	H		INPUT	OSD H SYNC INPUT
64	Vcc	+5V	–	–		Vcc +5V

6-2. DAC terminals

1) DAC1 (IC2006: M62352GP)

Pin No.	Pin Name	Function	Others
18	A01	FAN CTRL	FAN CONTROL
19	A02	TTEMP	NOT USED
2	A03	TEMP	TEMP. LED
3	A04	LAMP R	LAMP LED
4	A05	SM –	LENS SHIFT –
5	A06	SM +	LENS SHIFT +
6	A07	F –	FOCUS –
7	A08	F +	FOCUS +
8	A09	Z –	ZOOM –
9	A10	Z +	ZOOM +
12	A11	POWER ON	POWER LED
13	A12	LAMP G	LAMP LED

2) DAC2 (IC1017: M62352GP)

Pin No.	Pin Name	Function	Others
18	A01	VPRG	CXA2111R
19	A02	VSID	CXA2111R
2	A03	RBLK	CXA2111R
3	A04	GBLK	CXA2111R
4	A05	BBLK	CXA2111R
5	A06	RGAIN	CXA2111R
6	A07	GGAIN	CXA2111R
7	A08	BGAIN	CXA2111R
8	A09	VRCOM	CXA2111R
9	A10	VGCOM	CXA2111R
12	A11	VBCOM	CXA2111R
13	A12	BKLIM	CXA2111R

3) DAC3 (IC3502: M62352GP)

Pin No.	Pin Name	Function	Others
18	A01	GAIN	LM1204V
19	A02	BRIGHT	LM1204V
2	A03	ROS	LM1204V
3	A04	GOS	LM1204V
4	A05	BOS	LM1204V
5	A06	R-D	LM1204V
6	A07	G-D	LM1204V
7	A08	B-D	LM1204V
8	A09	DVD AGC	DVD AGC CONTROL
9	A10	DVDR	DVD R (WHITE BALANCE)
12	A11	SECAM/OTHER	SECAM/OTHER SELECT (NOT USED)
13	A12	DVDB	DVD B (WHITE BALANCE)

4) DAC4 (IC1018: M62352GP)

Pin No.	Pin Name	Function	Others
18	A01	MC	M52320SP MAIN CONTRAST
19	A02	MB	M52320SP MAIN BRIGHT
2	A03	M/S	AUDIO MAIN/SUB L/H
3	A04	KILLER	3D YC KILLER CONTROL (NOT USED)
4	A05	VOL	SOUND VOLUME CONTROL
5	A06	P-MUTE	VIDEO MUTE (H/L)
6	A07	S-MUTE	AUDIO MUTE (H/L)
7	A08	BAL	BALANCE
8	A09	TRE	TREBLE
9	A10	BASS	BASS
12	A11	AGC ADJ	AGC ADJUST
13	A12		NOT USED

5) DAC5 (IC1029: M62392FP)

Pin No.	Pin Name	Function	Others
14	A1	NOKOBIAS	NOKO BIAS
15	A2	NOKOLH	NOKO ON/OFF
16	A3	NOKOSW	NOKO L/R SW
17	A4	RM	R MUTE
18	A5	GM	G MUTE
19	A6	BM	B MUTE
4	A7	S/VIDEO	NOT USED
5	A8	DVD15/31	15K/31K L/H
6	A9		NOT USED
7	A10	NTSC/PAL	NOT USED
8	A11	MMCRES	MMC RESET
9	A12	RES2442	NOT USED

6-3. I/O expander

1) M62320FP 1 (IC1001)

Pin No.	Pin Name	Function	Others
4	D0	HSTATE2	M52320 Pin 1
5	D1	VSTATE2	M52320 Pin 2
6	D2	HPOL2	M52320 18
7	D3	VPOL2	M52320 19
9	D4	HSTATE1	M52320 1
10	D5	VSTATE1	M52320 2
11	D6	HPOL1	M52320 18
12	D7	VPOL1	M52320 19

2) M62320FP 2 (IC411)

Pin No.	Pin Name	Function	Others
4	D0	V1SW	TERMINAL SW
5	D1	V2SW	TERMINAL SW
6	D2	V3SW	TERMINAL SW
7	D3	V4SW	TERMINAL SW
9	D4	DVD1/2	L/H
10	D5	VIDEO/RGB	L/H
11	D6	VIDEO/DVD	L/H
12	D7	DVD YS	DVD MUTE

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TQ0687-S
Jun. 1999 Printed in Japan
SY. KG

SHARP CORPORATION
AV Systems Group
Quality & Reliability Control Center
Yaita, Tochigi 329-2193, Japan